



FEB. 10 1971



BULLETIN OF THE
American Iris Society



WHITE CLOUDLAND

(Thomas 1971) M-L, 34",

Cup Race X (Cross Country X Whole Cloth)

We have named this iris after a range of spectacular mountain peaks, in south-central Idaho. According to legend, the Indians so named them because the white limestone peaks looked like billowing snowy clouds. This flower of course is not a mountain. However, if it was, it would be one of the largest. It truly reminds one of large white clouds in a blue sky. It is a tremendously large, beautifully formed and finished flower of purest white standards that are beautifully formed. The falls are wistaria blue, extra wide, flaring and overlap on well grown plants. Orange beards. It has the same beautiful form as its parent Cup Race. The blooms are of leathery substance and are well spaced on strong stalks. A real beauty, this is the showiest and largest iris I have seen in this class. \$25.00

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THE BULLETIN

of the

AMERICAN IRIS SOCIETY

No. 200

January 1971

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The *Bulletin* is published quarterly by The American Iris Society. Publishing office 2315 Tower Grove Blvd., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2315 Tower Grove Ave., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see sections under ANNOUNCEMENTS.

All copy due in editor's office fifty days before first of the month of publication.

The *Bulletin* is printed by The Livestock Press, Inc., 2830 "O" Street, Omaha, Nebraska 68107.

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The color cover, left to right. First row, BLUE SHIMMER (J. Sass '41), BLUE PETTICOATS (Schreiners '65). Second row, RHAGES (Mead-Reidel '34), ECHO ONE (Schortman '66). Third row, TIFFANY (H. C. Sass '38), CHARMED CIRCLE (Keppel '69).

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FROM THE PRESIDENT'S DESK

The 1970 Fall meeting of the AIS Directors, held in Huntsville, Alabama, November 6-8, enjoyed 100% attendance by voting Board members. This is significant when you stop to think that these officials travel at their own expense, often from far-off parts of the country. Important actions were taken in some of our problem areas, and forward steps were taken in new directions.

A special committee, headed by Dr. Clarke Cosgrove, will study AIS By-Laws to determine needed changes. Some of you will be consulted, I'm sure, since Dr. Cosgrove had been given full authority to seek thoughts and ideas from whatever source he considers feasible. In Wichita next spring, he will submit his recommendations to the Board. The proposed version of the changes will be published in the Bulletin far enough in advance of any voting that the members can study them and decide how they want to ballot. Ultimately, of course, any change in the By-Laws must be, before becoming effective, approved by a two-thirds majority of the voters who participate. In this connection, I am advised by competent authority that the laws of Pennsylvania, the state in which AIS is incorporated, require that a mail ballot for an organization such as ours must be signed by the voter to be legal.

Final action is now in progress to file in the state of Missouri the legal Declaration of Trust required to establish the American Iris Society Foundation. This Foundation will be a separate organization from AIS, with no direct legal connections. It will, however, be linked inseparably with AIS, with its sole purpose being the receipt of gifts, bequests, and devises to be used exclusively for education and scientific research in the improvement of all types, forms, and groups of species and cultivators of the genus *Iris*. It will provide for adequate and dignified memorial recognition for AIS personalities in whose honor gifts or bequests are made. The organizational meeting of the Trustees of the Foundation is planned during the Wichita convention in the spring of 1971.

A new standing Administrative Committee was established to coordinate the workings of the administrative elements of AIS. Mr. Earl T. Browder was selected as Chairman of this committee. To replace Mr. Browder as Membership Chairman, the Board chose Mr. Larry Harder. And Mrs. Ann Branch Dasch was elected as Chairman of the Youth Committee, to fill the vacancy left by Mr. Harder. Finally, Mr. Perry L. Parrish was approved as Chairman of the Publicity Committee to replace Mrs. Barbara Serdynski, who resigned because of bad health.

Faced by ever-spiraling inflation of printing costs (another 15% increase expected next year) the Board had to make difficult decisions on publications to be offered for resale versus those to be sent free to each member. It was decided that the 1971 Membership List would be furnished free, but that the 1970 Registration and Introduction List would again be sold to those who ordered it, as was done with the 1969 List.

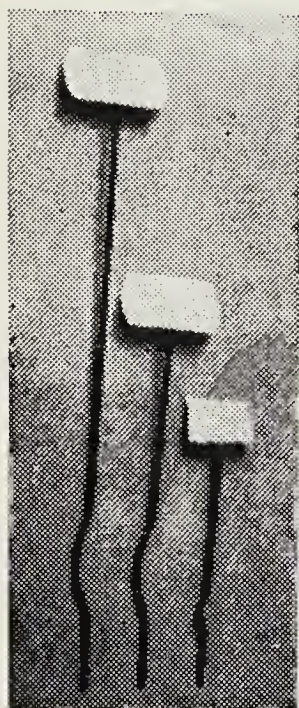
I suggest that each member read the full text of the official minutes which appear elsewhere in this Bulletin. They carry the record of all actions taken by the Board at the meeting.

William T. Bledsoe



Frank Halleck, Glenn Corlew, Paul and Louise Watts and Eleanor Westmeyer at Golden Jubilee Convention.

(Photo by Steve Varner)



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On Anthocyanin Patterns, Mostly Plicatas

Dr. Peter Werckmeister
Translated by Ursula McHardy

The oldest illustration of a plicata known to me dates back to the century following the time of Durer. It is by the accurate aquarellist Johannes Walther and is dated 1649. The true-to-nature likeness, which has become common since Leonardo da Vinci's famous hand drawings, has superseded the woodcut-like stylization which we still find in paintings of the Middle Ages where it is possible, for example, to recognize a columbine, but where it is impossible to exactly define the botanical species. It is due to this now firmly established practice of "true-to-nature drawings" that we can recognize for the first time from the year 1649 not only an iris species, but can even name the garden variety. The water colours of Johannes Walther come from the Hortus Idsteinensis, the garden of the Duke of Nassau in Idstein in Taunus. During the chaos of the Thirty Years' War, the duke moved to Strassburg and his collection was quickly scattered and lost. Some of the water colours found their way to England, and so we find only a few of them, probably via the Bibliotheca Webbiana, as treasures in the Instituto Botanico in Florence. After nearly 300 years they are to be seen there in admirable freshness.

Live iris varieties too, as clones, reach, due to their longevity and endurance, a very old age. They find their way from weed-infested gardens back into civilization and are thus being preserved and distributed. We can regard MME CHEREAU (Lemon 1844) as the oldest still obtainable plicata, which to this day is a pretty garden plant. The type plicata varies strongly in its expression. Thus we find the variety JEANNE D'ARC, which is nearly white, but out of which the pretty blue stlyecrests shine forth. AZURITE represents the same type among today's tetraploid garden varieties. Plicatas with very clean and evenly wide margins, such as BLUE SHIMMER and RIBBON ROUND, are especially valued, and when we examine unnamed seedlings today we come to the conclusion that it always was so, that only such individuals were selected, propagated as clones, and found worthy of a varietal name.

The originally narrow bands of the plicata markings can widen considerably, spread out over nearly the whole of the flower, and can even dissolve into many small dots. We find this among the old diploid varieties in PRINCESS OSSRA. But the intensity of colour also can increase greatly, regardless of the strongly repressed anthocyan distribution, which means an augmentation in anthocyanin concentration in the coloured cells. This is already present in the diploid variety HELIANE and is repeated in the tetraploids MASKED BALL and DOT AND DASH. Anthocyanin distribution in plicatas overlies the yellow plasmochrome, that is the yellow carotinoid colouration, and results in the yellow-ground plicatas. In the extreme this leads to a variety such as FULL VOLTAGE, a "brown" plicata, but because of its luminous yellow colour it would be known and valued as a yellow iris with a white area in its falls. Anthocyanin distribution can, in particular with brown variants, increase considerably, resulting in all petals and sepals being covered with dots and stripes, a type known today as fancy plicata (e.g., CAYENNE CAPERS).

What Exactly Is a Plicata?

The wide range of expression of the plicata pattern demands an exact answer to the question, "What is a plicata?" The answer should be a clear definition, but surprisingly, this is not so easy. Every iris enthusiast believes to know exactly what a plicata is, but can he give an exact definition? The difficulty in giving a definition is best illustrated by two further questions. The first was posed by Jean Stevens and is (abbreviated and simplified), "Is EMMA COOK a plicata?" EMMA COOK is not a plicata, and Mrs. Stevens, with her breeder's power of observation, has very exactly stated the reasons for her doubt. The second question is, "Is ENGRAVED a plicata?" This question cannot humanly be answered because ENGRAVED is a sterile oncobred and, even were it occasionally fertile, allows no Mendelian segregation which alone can afford us an acceptable answer. Yet the dwarf iris KNICK-KNACK is so visibly a plicata that we can trust our eyes alone. EMMA COOK and ENGRAVED may be obvious plicatas to the iris enthusiast, but the breeder would refuse such a definition since in his work he looks for recombinations which can be expected according to plan. He will return to his request that a generally valid definition for the plicata pattern be found.

During my visit to New York and New England at the time of the AIS convention, I saw so many new varieties of this type that it appears necessary to say more about the "EMMA COOK pattern" as opposed to the plicatas. This "EMMA COOK pattern" is an anthocyanin-coloured margin which is independent of the vessels. Yet it seems doubtful whether this limited anthocyanin production can be ascribed in like manner to the "shortage" of an anthocyanin-producing principle as will be worked out for plicatas later on. The "EMMA COOK pattern" only appeared in later segregations after the inbreeding of PROGENITOR. The anthocyanin distribution in PROGENITOR cannot be regarded as recessive but more likely as dominant. Certain proof, however, that we are dealing with a single dominant PROGENITOR gene, is as yet missing. It is near to miraculous how much Paul Cook has enriched the colour scale of the tall bearded irises with this cross, especially when one considers the numerous combinations of yellow and violet. But it is these colours in particular which show that it is not an "amoena" pattern. There is every indication that in this instance an unknown chemical compound is abundantly present which changes the whole process of anthocyanin production. Comparing the "EMMA COOK-plicatas" with the "PROGENITOR-amoenas", it would appear that the "EMMA COOK pattern" still contains an excess of substances, only a small amount, resulting in weak anthocyanin production which stops short of the margins on the blade. All this, however, for the time being, is hypothesis. We are certain of only this: PROGENITOR is not an "amoena," and EMMA COOK is not a "plicata."

Looking at one's garden, there are "plicatas" everywhere, only the name for it in plants other than irises is different, e.g., "picotee". The common factor is the feathered markings along the margins. Since it appears in many flowers, it is of common interest. Why then, for that reason, not look at it in an iris more closely? We have learned that there are many different anthocyanins causing the colours red, violet and blue, and that, moreover, the colour is being changed in the cell sap due to several chemico-physical factors. This need not occupy us here, for it is obvious that the plicata or "picotee" markings appear with different colours, meaning that it is independent of the kind and condition of the anthocyanin. Utterly independent of this, colour pigments sometimes occur only in a specific place on the petals and sepals, and are not found distributed evenly over the whole of them, thus creating a colour pattern.

To the first condition, the exact description of the colour pattern, we must add as a second condition the genetic dependence of a defined plicata gene, and, thirdly, the not easy task of, above all, an examination to determine which physiological conditions lead to the fact that anthocyanin production is favored on specific areas of the flower petals. This condition shall take prevalence here, since it indicates the existence of definite "anthocyanin-producing principles" whose nature, though unknown to us, is deserving of examination. On examining

the pattern of a typical diploid variety, we see that anthocyanin production always follows the course of the veins. As anthocyanin is always produced within the vacuoles of the cell, it cannot have been transported by the vessels. What has been transported by the vessels is in consequence some substance which is a water soluble component of the anthocyanin and which had to penetrate into the cell in order for anthocyanin to be produced there. In the case of the plicata markings the anthocyanin production on the petals and sepals is only scant. It can be shown that the remaining white epidermis cells contain not even hidden anthocyanin (as in the case of dominant white varieties). On closer observation one can see in front of the marginal markings, which follow the course of the veins, some scant, very isolated dots where only a few cells lying exactly over the vessels are capable of producing anthocyanin. This indicates that the anthocyanin-producing principles as being subject to a shortage, but that this shortage constitutes a deficiency which is dependent on the transport of organic substances in the vessels. Since we definitely know the plicata pattern to be controlled by a recessive gene *pl*, it follows that it is this shortage which is controlled by the gene, not the anthocyanin production in itself.

There are diploid recessive white irises which have throat venation due to anthocyanin. In these, the principles necessary for anthocyanin production are thus transported only as far as the base of the petal and no further. In some white varieties these throat venations are even considerable, e.g., in MYSTIC, and are possibly responsible for the appeal of this variety. But the remaining spread of the petal remains pure white and does not even possess hidden anthocyanin which could, for example, be present as a pseudobase. Since plicatas also have these throat venations, we must guard against confusing them, which also follows the course of the veins, with the plicata markings. Thus the definition of a plicata would have to include the fact that this pattern is gene-controlled, that it follows the course of the veins, which, however, consists in a shortage of an anthocyanin-producing principle which usually, in fully coloured flowers of a self-coloured variety, is present in all epidermis cells.

Anthocyanin-Producing Principles

This train of thought leads one to consider a white variety not only as just white, but as a variety lacking anthocyanin. Here it is especially interesting that among tetraploid varieties there are pure white ones, such as MATTERHORN (and related ones like the lemon yellow ELSA SASS) which have not the slightest suspicion of anthocyanin colouration. Here the whole flower is incapable of producing anthocyanin; here the presence of some component is thus completely lacking. Looking at the flower with the eyes of an aesthete only, the difference will not bother me perhaps; but the breeder or, even more, the biologist who likes to know how anthocyanin colouration comes about, will notice the difference. One can accept it then that a pure white flower contains some anthocyanin, or one can speculate that it contains none at all. Randolph and Sturtevant drew our attention to these all-whites, and we find their dissertation in an essay, "Three Kinds of White Bearded Irises" (*AIS Bul.*, Nov. 1945; 99: 52-66), as well as in *Garden Irises*. The genetic aspect is thoroughly dealt with and can be reread in *Garden Irises*, thus there is no need to repeat it here.

What shall interest us here is that the alternative "white = no anthocyanin" and "non-white = anthocyanin" draws out attention to two facts. When no anthocyanin is produced it can be because the chemical compounds leading to anthocyanin production in the cell are simply missing. It is then clear that a

single component by its absence renders anthocyanin production impossible, even if all others are present. Thus, when two distinct white iris varieties, crossed with each other, produce 100% blue seedlings, then we have two different components which are missing in the two distinct and hereditarily different white irises, and it is up to us to discover which components are involved. The second fact leads us to believe that there are different ways by which the components are made available, which can be seen by the areas preferred for anthocyanin production. The expedient are the colour patterns, and it obviously interests us very much should they be heritable and should they be controlled by a recessive gene.

We can thus note that an anthocyanin-producing principle is transported by the vascular bundles when anthocyanin production preferably follows the course of the vascular bundles, the "veins." This can be beautifully seen in the wild species *Iris variegata* and especially well in oncocyclis irises. However, if we look at various other colour patterns we find still more principles. When a flower petal bends during growth, anthocyanin is produced only on the convex side, never on the concave side; there it remains "white", that is, free of anthocyanin. This can be seen most beautifully when only part of the flower is coloured, for then a "spot" or "signal" is formed. Not only in irises but in many garden flowers there are such "signal spots," which are always on the upper side. Signals are especially interesting when they contain different anthocyanins. In this case they often appear on the inner, the concave side of the blade (e.g., black spots on red tulips), and the signal contains *always* the larger, more complicated molecule. In the case of the red tulip it is the pair cyandin-pelargondin. This is not so with irises, where only delphinidin is to be found. Walter Welch's spot theory is of special interest in this context. There is no more suitable object than the many varieties of the true *Iris pumila*, and we can only hope that in spite of the many difficulties which *Iris pumila* poses in breeding, someone will be prepared to work out the genetic relationship. But the behaviour is the same as the biochemist can observe on his chromatogram. For us this means: There exists an anthocyanin-producing principle which follows a partition between two different physico-chemical phases (not the course of the vascular bundles!).

This is not the place to follow this thought through, since we want to deal with the colour patterns in iris blossoms. There are so many which point to biological, biochemical occurrences during the formation and development of the flower that it is worthwhile to concern oneself with the many patterns in the iris flower. These numerous patterns also point to the fact that there are not only many components which all have to be present for anthocyanin production, but that here too they are made available in different ways. The appeal for the iris enthusiast lies therein, that, starting with the plicatas or with all-whites, that is the Matterhorn-whites, these can be easiest seen and spotted. Every breeder knows this subconsciously, and that is why he likes to work with plicatas. When we cross with variegatas or with neglectas, we can never tell from the segregating progeny whether we have obtained a fancy plicata or a "dirty" variegata. Nor is it possible here to enumerate and describe all of the distinct colour patterns so far mentioned by me, especially as they occur in flowers other than irises. But I should like to point out that it can be well observed from crosses with plicatas and all-whites, whether the colour pattern of the iris is an impenetrable combination of various principles, or whether it involves a clearly definable principle. For, when crossing with plicatas or all-whites, then, in most cases, the colour pattern of interest or anthocyanin-producing principle will

appear in segregation. In the presence of the genes responsible for the two patterns, the others can "manifest" themselves most easily, which is not the case when they have to deal with the numerous dominant "wild genes" of the tetraploid pogoniris. A good sign is whether the anthocyanin production follows the course of the veins, which due to the "shortage of the components" appears in the end only as solitary dots on the vascular bundles, or, contrarily, whether it keeps away from the course of the vascular bundles. Especially with the fancy plicatas it can be seen that in many varieties the dots do not occur on the vascular bundles, but, on the contrary, in the intercostal spaces, that is, between the vascular bundles. In many varieties only these intercostal spaces are coloured by anthocyanin, the vascular bundles being colourless, e. g. LAS FLORISTAS.



ENGRAVED
(Craig 52)

An oncocyclis; veining, not a plicata.



LAS FLORITAS
(Slamova-Hawkinson '56)
A fancy-plicata; note that the venations are colorless, not anthocyanin-colored.



HAVELSEE
(Werckmeister)
A pattern which is recessive like plicatas; it segregates easily with all-whites and plicatas; the blade is dotted with anthocyanin-colored cells; the pattern does not follow the veins.

Finally I would like to mention one more principle which I have encountered for the first time in the variety HAVELBERG of the German breeder Theodor Schwartz. It consists in the whole spread of the flower petal being delicately coated with anthocyanin as if sprayed on with a vaporizer. The veins are colourless and there is no throat venation. This colour pattern can easily be obtained again with plicatas as well as with all-whites (or lemon yellows), and I raised from many seedlings an especially beautiful one which I named HAVELSEE. Its colour is somewhat more intensive. Thus, exactly as with plicatas, this colour pattern has nothing to do with the intensity of the anthocyanin production. It came as a surprise to me, but with the knowledge of the relationship not an unfathomable one, but an immediately understood one, when, by chance, I met with an American variety which is intensively violet but which possesses the same colour pattern which I attributed to a Havelberg-gene (abbreviated hav). I do not think that someone not having effected this cross could easily recognize it as something special. It is the variety SALEM LASS of Olson. He who looks at it very closely will see that, although deep violet, it has not only no throat venation but nearly "smooth hafts" as are known in MATTERHORN and ELSA SASS. The "sprayed-on anthocyanin, not following the course of the vascular bundles any more, is in this instance so dense that the

“shortage” of the anthocyanin-producing principle cannot be recognized any longer. Yet crosses with HAVELBERG and HAVELSEE would show that it concerns the same gene and consequently the same anthocyanin-producing principle.

While visiting the garden of Mrs. Warburton, just as previously in the garden of Eckhard Berlin, I found this “Havelberg-pattern” represented many times in the dwarfs and medians. Mrs. Warburton considered it unmistakably different from the plicatas and also had proof of the genetic difference, yet she called it a “fancy.” At present I cannot agree with her, since the “fancies” among the tetraploid tall bearded irises possess the same “throat venation” as the plicatas. However, in this case, too, it will be possible to find unmistakable proof in segregation. For the present I personally prefer to differentiate between the gene *pl* and the gene *hav*.

It is clear to all that genetics of tetraploid tall bearded irises is the most difficult subject which one can attempt, and it is understandable when breeders attempt to raise a Dykes Medal winner only according to aesthetical values. Yet it is possible that a breeder still is young enough to feel the appeal of a solution to such a problem. I recommend that he pay attention to colour patterns, and among these are the plicatas and all-whites. Thus I crossed MATTERHORN with the orchid ZEPHIR of Steffen and obtained blues and all-whites. The backcross produced again orchid, as well as blues and all-whites, but the difference was distinct; there were no transitional stages between blue and orchid, and I had proof of the existence of a gene for orchid which I could not have obtained as beautifully in a direct cross between blue and orchid. Thus, painstakingly over three generations, I raised the recombination between all-white and tangerine bearded which I exhibited in the Presby Memorial Gardens and which constitutes a true breeding family. They are in no way beautiful and surely possess no claim to the Dykes Medal, but they demonstrate clearly that a particular colour can be associated with a particular gene. Then, that also means a particular gene — a pigment-producing principle. This has to be discovered, for in this way will we ultimately learn more about colour in flowers. This, above the significance of different colour, is the great significance of the colour pattern, in particular of plicatas. Once we know more about it, we will be able to satisfactorily complete the definition of a plicata.

IT'S OREGON FOR YOU IN '72

Bennett C. Jones

In the heart of the Willamette Valley, a major horticultural center on the West Coast, growers and members are at work on a meeting we believe you will not want to miss. Designed with a minimum of travel, a maximum of time for viewing irises and a luncheon deep in the lush Northwest woods, we offer these as only beginning attractions.

Before or after the meeting, late in May, we hope you will plan to visit the commercial gardens in our neighboring state of Washington. You may want to tour our beautiful coastal areas, or drive to our very different mountains.

Plan now—we want YOU in '72!

THE UNIQUE PLICATA

Robert Schreiner

The floral kingdom displays manifold variations within the many kinds of flowers that make up the realm. Yet the Iris genus occupies a unique position because of not only great diversity in form and coloring but great diversity in particular markings of color. Other flowers can be singled out because of an entrancing veining pattern on the bloom, or a picotee, but none can rival the iris with its distinct hemstitching pattern, of infinite variation, which is called the plicata pattern. It is a fascinating study to explore the unending variation of this singular pattern of marking. For instance, there is the edging of minute lines, so close to each other, that the general effect, particularly from a distance, is almost a solid pattern of color. Yet on inspection one sees it is made up of myriad minute lines artfully laid down. Others have a limited number of markings, or tiny polka dots, giving the bloom a more quiescent effect. There are blooms with solid color in the stylearm and just a few fairy-like flecks along the margins. And still others with sandings, or washes, of tiny pin points of color; some have a mysterious outpouring of veins and dots over the entire petal, giving us a group popularly called "fancies".

Buried in the early floral history of Europe, preceding our knowledge from printed accounts, this color pattern made its appearance. We do not know when or where. In early writings, when botanists were attempting to methodically list and identify the various iris species, *I. plicata* was ascribed the status of a true species! Not until the time of the pioneer iris breeders did subsequent research reveal that this plant is not a true species. A fascinating account of a botanical collecting tour by W. R. Dykes through the Balkans, specifically along the Dalmatian shores, comments on the absence of any plicata type plants in the wild. He did find those rare albinos of *I. pallida* here. The interest in plicata, which so closely resembles *I. pallida* in its features, except for color pattern, is to be noted. Dykes and other early iris specialists soon discovered through studies and collections that where the geographic range of *I. pallida* met with the extension of the Hungarian iris *I. variegata* natural hybrids did occur, including some hybrid types that had been given species names, as had plicata. These include *I. sambucina*, *I. squalens*, *I. amoena* etc. These latter could be synthesized in the gardens by crossing *I. pallida* with *I. variegata*. The absence of emergence of plicata color patterns from such crosses was never documented. Conceivably the complexity of hybridity could have been a causative, laying down for the future the emergence of this unique color pattern, unduplicated heretofore.

How did these plants come to our gardens? In early times the trade routes via water commerce in central Europe followed the river valleys and one of the channels of transport from the Balkans was up through Austria into Germany and the great central valley wherein lies the area of early gardening. First in France and Germany, then Holland and across the Channel to England. The migration of these early bearded irises likely following such a route. These plants were of the *I. pallida-variegata* complex, along with their natural hybrids, and man sequestered seedling variants, providing the sources of material prior to 20th century times. The presence of plicata patterned irises was documented early in France. It is interesting that two French nurseryman-hybridizers, Jacques Lemon and Mons. Verdier, the elder, cataloged an extensive list of

bearded irises between 1820 and 1850. Mons. Lemon introduced over 100 varieties, including the varieties JACQUESIANA and MADAM CHEREAU! The latter iris is still extant, a sort of prized heirloom from great-grandmother's garden. We shall come back to these varieties in a later discussion.

THE GENETIC TOOL

Gregor Mendel's famous paper on experiments he carried on in the inheritance of the garden pea (1865) was rediscovered around the turn of the century. In it he oriented the scientific world to the new science of genetics. The selection of the garden pea for a genetic study was a happy choice. It had dominant and recessive characteristics which allowed the student to make a statistical analysis of how different characters are passed on. Had the characteristics dwarf and tall in Mendel's peas not been inherited in a simple dominant or recessive, understanding of the science may well have been more labored and less clear cut. It was a happy occurrence, the right thing at the right time at the right place. The inquiring minds of early iris breeders such as A. J. Bliss of England noted the demonstration that in the hybridization of irises of the plicata pattern this type of coloration was inherited exactly as had the tall and dwarf characters in Mendel's peas. In other words, the plicata factor was inherited as a simple Mendelian recessive character. Bliss's work in this area was done mainly in 1915 to 1920 and results of much of his research was published in the Journals of The Royal Horticulture Society (England) at that time. His plicata PRINCESS OSRA, introduced to commerce in 1921, was grown and cataloged in America extensively in the 1920's and '30's. It came from a cross of a plicata, DOLORES, with a blue, SUFFREN, which itself had the interesting ancestry of PRINCESS BEATRICE (a pallida blue self) X MADAM CHEREAU! Here you have a classic example of the manner in which the plicata pattern was recessive in the variety SUFFERN and was brought out by crossing it to a plicata variety, DOLORES.

While Bliss was carrying on his investigations in England, an American iris breeder, Miss Grace Sturtevant of Massachusetts, was doing similar research. The very first Bulletins of AIS contain some fascinating excerpts of correspondence between Miss Sturtevant and Mr. Bliss on the subject of iris inheritance. Here were two pioneers venturing into unknown lands, sharing their experimental information and theorizing on the vast field of iris inheritance. It was a stimulating and lively age. Miss Sturtevant is well known for her work in crossing the blue pallida iris with the yellows extant in that day in her quest for finer yellow irises. Here she found not a dominant presence and recessive absence expression of factors for inheritance, but a blending (admixture) wherein neither the yellow nor the blue could completely dominate or submerge, but each blended with the other's coloration. This, she soon found, was in vivid contrast to the dominant and recessive factorial setup of plicatas. Her plicata work yielded the variety TRUE CHARM in 1912, which originated from the variety ST. CLAIR (Lemon, France), a plicata, with ORIFLAMME, a development of the French breeder Vilmorin, which was a blue iris. A significant segment of the correspondence between Miss Sturtevant and Mr. Bliss was the exchange of information as to what irises other than plicatas carried the plicata factor hidden in their makeup, ready to be extracted by suitable recombination with other plicata inheritable parental stock. At the same time the hypothesis that a hidden heterozygous plicata bearing plant had to be a self color plant had to be explored and it was learned in time that the variety JACQUESIANA, which is not a blue, is also a carrier for plicata. To determine next if the marking of the

plicata could be modified to other colors, Miss Sturtevant consciously selected irises of mallow pink tones of those days and crossed them with known plicatas. She carried on this line breeding work and in 1924, 12 years after the introduction of TRUE CHARM, she offered TRUE DELIGHT, a pinkish plicata! Yes, she did change the color markings.

We return to France to see what was accomplished there while Mr. Bliss and Miss Sturtevant were carrying on their work. An outstanding French horticultural firm, Vilmorin & Cie, produced two reddish colored irises, OPERA and MEDRANO. While neither were plicatas, each proved, in subsequent years, to be an important cog in the blood stream of plicata derived plants. Two other French plicata irises of invaluable consequence were HELAINE from Millet and MADAM LOUIS AUREAU from Cayeux. We will mention these again.

Throughout the iris world the sudden emergence of a plicata from a relatively hidden source was an exciting event. The question was why did this pattern appear so suddenly and mysteriously? In fact, in its own unique way the appearance of this singular pattern of coloring greatly aided the development of modern irises because it created the question and the challenge . . . why? Breeders and students delved into the subject and the understanding then came on the transmission of recessive characters in irises. So, just as early genetic studies were done on the fruit fly (*drosophila*) to study the chromosome and genetic inheritances, so the tool for the early iris breeders was the factorial study of the plicata pattern.

A NEW PLICATA COMPLEX

We now go to the gardens of the Sass brothers in Nebraska. Here was an oasis of iris breeding. Early crosses were contemporary with the work done in Massachusetts and England, yet carried on independently. And how fortunate, because the irises originating in these gardens were something different. One of their significant firsts was the introduction of the iris MIDWEST, closely following by the trio KING KARL, JUBILEE and LONA. Each from that family of plicatas had 'sanded' in markings. They were tannish and light copper in color and had unique form, different from other plicatas extant. Their ancestry dates back to the early orchid pink QUEEN OF MAY, and the matings of derivatives of this iris, crossed with plicatas, and laced with liberal dosages of special clonal selections of *I. variegata*.

THE GIANT STEP

In discussing plicata irises, all that have been mentioned to this point have been diploid irises. The genetics of diploid irises is simpler than higher ploidy and can be more easily understood. The years from 1915 to 1950 were great years for landmark accomplishments in iris breeding. Many famous firsts were laid down in this period and embellishments and refinements have since helped perfect our irises to the quality they bear today. A backward glance will attest to the difference between the irises of today and those of 20 years ago, and, viva la difference!

Between 1915 and 1950 not only were different genetic problems being experimented with by many breeders, but, fully as important, the important transition of the entire gene complex of all colors from diploid to tetraploid was taking place. How can a few paragraphs compress the successes and frustrations of nearly two generations of effort in iris breeding? The great change effected in iris blooms in the bearded iris family that came with the infusion of the natural tetraploid species of the near East is one of the great achievements in the development of flowering plants in horticultural history. Evidently irises in

higher ploidy, as, for instance, octoploids with 8 sets of chromosomes, simply are not the horticultural success present day tetraploid irises are. As we mentioned, the plicata pattern existed in the germ plasm of the diploid iris. It was inherited as a simple Mendelian recessive.

The next obvious program for the iris breeder was a planned cross to evolve tetraploid plicata irises. Two men collaborated on this task, William Mohr of Mt. Eden, Calif. and his close friend Sydney Mitchell of Berkeley. Because of the favored climate, one of Mohr's first aims was to combine the large tetraploid species which grew so well there, *I. mesopotamica*, with the more colorful, though smaller, diploid iris clones which Mr. Farr in Pennsylvania had named and introduced, as well as the diploid irises in commerce in France and England in those years, the 1920's.

With the founding of the American Iris Society and the publication of Miss Sturtevant's iris genetic pursuits in the Massachusetts Horticultural Society's Journal, it was only a matter of time before correspondence was exchanged between Miss Sturtevant and Mr. Mohr. She not only shared her knowledge with Mohr and Mitchell, but passed on, as well, the information and experimental data gleaned from her correspondence with Bliss. It was out of this exchange of information that came the knowledge that Farr's JUNIATA, a diploid, carried the plicata as a recessive factor. Likewise, Mr. Mohr learned through his crossings that Vilmorin's PARISIANA, a plicata of lavender-pink cast, was an effective breeder. Example—the famous cross with aril *I. gatesii* and PARISIANA produced the iris named WILLIAM MOHR. So Mohr and Mitchell laid the groundwork for the new plicatas in the tetraploid era. Mr. Mohr had raised two irises, one named CONQUISTADOR, which was the result of a cross of JUNIATA, a blue, but a plicata carrier, with the tetraploid species *mesopotamica*. CONQUISTADOR was a fine blue iris in its day. The question was, did it, as it stepped up into tetraploid status, have the plicata gene? Another cross was the combination of *I. mesopotamica* with the plicata PARISIANA. This seedling was a medium blue-violet. So the groundwork was laid. First the variety CONQUISTADOR was crossed with the plicata PARISIANA. This seedling, in turn, was crossed with ESPLENDIDO. So confident were Mohr and Mitchell that they foretold the coming of tetraploid plicatas from this—before they ever saw the seedlings bloom! And the tetraploid plicatas did arrive on schedule and gorgeous new stars they were. Two of the seedlings were named: SAN FRANCISCO, a blue plicata which won the Dykes Medal in 1927, and LOS ANGELES, destined to be extremely popular and satisfactory. Tetraploid genetics is much more complex than diploid genetics so the seemingly rash forecast of results to come was all the more remarkable in the fruition of this projection.

Early in the discussion of plicata bearers, or recessives, a theoretical discussion had centered on whether a hybrid with plicata ancestry might have to be self in color, and likewise, whether this might be an avenue to redder irises. Interestingly, then, the next question was...since the original tetraploid plicatas were the blue marked kinds, could other colors be expressed in the markings and stipplings and could colors like TRUE DELIGHT be carried out in the tetraploid version? Old JACQUESIANA, a reddish colored variety, and a plicata carrier, was crossed by Mohr with the species *I. junonia* and this hybrid, in turn, was combined with Sturtevant's SHERBERT. Then this resultant, in turn, crossed with LOS ANGELES. The result came as hoped for—a reddish plicata, subsequently named SACRAMENTO. The epochal breakthrough had occurred and the tetraploid plicatas from California were the sensation of the

nation and triggered extensive plicata breeding. Mitchell continued the plicata work after Mohr's sudden death and developed a series of new colored varieties, including the new fancy, over all plicata pattern that we will discuss later.

The achievements of Mohr and Mitchell came to the attention of the Sass brothers, so Jacob Sass made a trip to California to see these famed new plicatas himself. He returned to Nebraska with such varieties as CONQUISTADOR, that tetraploid plicata bearer, and Mohr's ARGENTINA, a variety which was a product of the combination of the tender species *I. mesopotamica* (which could not be grown successfully in the climate of Nebraska) crossed with more hardy, colorful diploid varieties.

So at the Sass gardens this is what now occurred. Hardy selections were made in plicatas stemming from a combination of Mohr breeding stock with Sass's own rock hardy strain of irises. CLARIBEL was one of the results. However, another extremely important facet of plicata breeding was adorning at the Sass Gardens at this time. In order to infuse a strain of hardiness to the newer tetraploid irises that stemmed from the more tender southern species *mesopotamica*, etc., the Sasses consciously laced and infused *I. variegata* derivatives into their irises. From *I. variegata* they got more color and hardiness. They attained such fine plicata varieties as SIEGFRIED and TIFFANY, as well as the first tetraploid of variegata coloring, CITY OF LINCOLN, with its clear yellow standards and rust brown falls. So in their own right the Sasses contributed as great accomplishments as did the California pioneers, because they not only offered a tetraploid plant, but one of a great range of color and hardy. Even today the greats in the plicata world owe thanks to the Sasses for opening the door to these new colors. An interesting aside is that Bliss's original contention that plicata carriers would be self colored iris was dispelled as many of the Sass's derived from bicolor, yes, even variegata types, that had the plicata factor latent within.

We are approaching the era of participation by a great many Americans in the production of new plicata irises, but before we do this let us look back at France once more. In this country, too, as in England and the United States, breeders were working along parallel trails of development. From the diploid plicatas such as MME. CHEREAU and MA MIE to the modern tetraploid that Cayeux introduced in the mid 30's, MADAM LOUIS AUREAU. This latter iris derived from the old wine red iris OPERA, had a different type of applique, soon to be called a "fancy" pattern. The color was applied as sort of a wash rather than stippled on or occurring as a margin of color. MADAM LOUIS AUREAU was used extensively in America, by two breeders in particular.

THE GREAT GATHERING

It is interesting to note that each of the pioneer plicata breeders combined irises of their own development with one or two from other breeder's stock. For instance, Bliss used French as well as English varieties. Mohr-Mitchell used the Near East species with the English and French varieties, and Sasses worked with the amalgam of *I. variegata* and the 'pink' variegata QUEEN OF MAY with various plicatas. This gathering together seems to have been a fruitful cornucopia from which many plicatas have arisen.

A significant contribution to the plicata expansion was the rather unexpected appearance of Jesse Wills' SNOW CRYSTAL (1944). The registered parentage is ((Sensation x Paulette) X Narain)—all blue irises. Somewhere within SNOW CRYSTAL's makeup the recessive plicata must have been carried because one of its descendants is Mr. Wills' BELLE MEADE, a fine blue plicata. It is a

noteworthy variety, too, because it, in turn, having aphylla ancestry with ideal bud count and well-branched stems, via NARAIN, gave Schreiners the notable ROCOCO, renowned for its extra fine bloom stem and long blooming period, due to its many buds. ROCOCO has been used freely by more recent breeders with surprisingly excellent results.

Three fields of endeavor stemming from the Mohr-Mitchell plicatas should be mentioned. They are, first, the widely ranging color pattern products from Mr. Tom Craig. A close friend of Sydney Mitchell, Mr. Craig's expansion into the plicata field gave a legion of color varieties. Another interesting divertisement is the curious emergence of plicata irises in the dwarf family. The use of MARIPOSA MIA (Mitchell) in one case sired a dwarf plicata. The use of the famous Sass variety, MINNIE COLQUITT, in another case, opened the door to plicatas in the dwarf iris family, a pattern not previously existing there. An entire chapter could be written on the sudden emergence of plicatas such as DALE DENNIS and CIRCLETTE, to mention but two, but that story had best be left for another place and another time, fascinating as the implications are. And, finally, Fred DeForest, another Mitchell protege, was acquainted early with the Mohr-Mitchell plicatas and then carried on *his* particularly effective breeding program of Sass and Mitchell plicatas, particularly in the yellow background family. His early variety TIFFANJA (Tiffany X Naranja) was noteworthy while CAROLINE JANE was another striking advancement in the blue plicata class.

Brevity necessitates limiting the review of many of the plicata contributors in the decade of 1940 to 1950. A particularly striking refinement was the development of the yellow background types as well as the highly colored wine and burgundy plicatas, probably forecast by the Sass variety PORT WINE and that epochal breeder, TIFFANY.

Another breeder who worked in plicata development was Chet Tompkins. It was he who "rescued" the Sass variety, DOTTED SWISS, and Mr. Tompkins, continuing liberal use of Sass varieties, can be considered to have further glorified that strain. His notable production RIBBON ROUND is an ideal example of perfection of quality in a fine blue plicata. His work was carried on in deeper shades of red and reddish mulberry as well as in yellow plicatas.

The principal and fundamental thought of bringing together unrelated or distantly related lines of plicata breeding was the amplification of the plicata work Schreiners pursued. It seemed that the plicatas of Mons. Cayeux, particularly his work in the tetraploid field introduced in the early 1930's, offered distinct and different lines to combine with the highly individual and different plicatas from both the Sasses and Mohr-Mitchell. Three seedlings were introduced in 1942, more or less the groundwork for subsequent Schreiner plicata breeding. The seedlings were named GYPSY BARON, a fancy plicata (Claribel X Madam Louis Aureau), LADY OF SHALOTT, a pinkish plicata (Madam Louis Aureau X Rosy Asia), and the yellow ground plicata, MAGIC CARPET (Madam Louis Aureau X Seigfried).

At the same time obtaining a very deep violet marked plicata, almost black, was a persistent goal. With this in mind the diploid variety HELAINE was crossed and raised to tetraploid status. Carrying on this particular effort we eventually named a seedling FLYING SAUCER. It was from the combination of FLYING SAUCER with others that gave us ROCOCO (Caroline Jane x Flying Saucer) X Belle Meade. Not only has ROCOCO been a striking show flower and garden variety, it has, in turn, been liberally used by many breeders and produced some striking seedlings. Our own efforts include crossing it with

DOTTED SWISS to produce BLUE PETTICOATS, and with KIMBERLEY to produce JOLIE. Unfortunate happenings can occur with record keeping and, sadly, our records on the exact ancestry of STEPPING OUT, perhaps our most widely acclaimed plicata and Dykes Medalist, are uncertain. It was the first plicata to win a Dykes Medal since the 1920's when the plicata SAN FRANCISCO won it. Today STEPPING OUT has been used by breeders the length and breadth of the land. We, too, have not been idle in using it. One wonders what will appear.

In a summation of the various plicata colorings the wine red coloring of some of the early Vilmorin and Cayeux varieties was mentioned. In our program we had made a special effort to make a complete progression to irises of finer qualities in the wine and burgundy colors. It is interesting to see this evolvement. BAZAAR (1955) was a starting point. KARACHI (Port Wine X Bazaar) was a full step forward. KARACHI crossed with the fancy, GENE WILD (Craig), gave us PINWHEEL. Another KARACHI cross with LUCY LEE (Gibson) gave the luxurious HIGH LIFE. Right now the search is on for a really pink plicata. When the colors lighten the pink cast seems to recede toward lavender. CURTAIN CALL is a rather interesting development in that it arose from the line breeding of yellow plicata seedlings and they in turn were crossed with MEMPHIS LASS (Schortman). Shades of the Sasses—will the newest pink plicata arise from yellow or variegata ancestry?

The imaginative plicata breeding of Mr. Jim Gibson is a classical example of a progression of line breeding. The particular development started with the variety TAHOLAH, which was in itself an articulation of specific markings in the plicata field in brown shades. It arose from material that had stem roots in Sass plicatas and Dave Hall's continuation of Sass plicata lines. These, coupled with, interesting enough, MADAM LOUIS AUREAU! WILD GINGER, RADIANT APOGEE, APRIL MELODY . . . all Gibson greats and all imaginatively different, yet plicatas all.

The story of the plicata is the story of a color pattern and perhaps it is a color pattern that does not attract all. Some prefer self colors; others find other various blending of coloration to their liking. It has been observed that for one who has not been exposed to irises that one of the great drawing cards has been the plicata family. And our famous iris breeder Orville Fay chose a plicata as the very first product of his efforts to be introduced to the iris loving public . . . LADY NAOMI in 1941!

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Bicolors, Plicatas...or Both?

Keith Keppel

With the advent of the Progenitor line and the dominant amoena gene it carries, breeders began crossing this line with nearly everything in sight. Plicatas were not exempt. Some of us wondered what a “bicolor plicata” line would yield. Envisioned were flowers with clear standards of a single color, with no plicata markings, topping plicata falls. “Amoena-plicatas” were imagined — clear white standards, plicata falls — as well as “variegata-plicatas” — yellow or yellowish standards, plicata falls.* Plicata versions of EMMA COOK, so to speak, only done in a wide variance of colors of markings and on grounds other-than-white as well as white.

The plan on paper was to cross dominant amoena with plicata. The plicata factor being recessive, none of the first generation would be plicata. In the second generation, by crossing back to a plicata, approximately one-sixth of the progeny should be plicatas.

We expected about 50% bicolors or strong bitones from the dominant amoena line outcrossed to selfs (or to plicatas, which, being recessive, would breed as selfs the first generation when crossed to a “non-plicata”). By using a strong bicolor from a (*dominant amoena X plicata*) cross with a plicata, we hoped to retain the ratio of half bitones or bicolors, half selfs. Then, presuming full segregation, by combining the “bicolor” segregation ratio with the “plicata” segregation ratio, we expected the formula of ((*dominant amoena x plicata*) *X plicata*) to yield a ratio of 5 self : 5 bicolor-bitone : 1 “self” plicata : 1 “bicolor” or “bitone” plicata. By “self” plicata, we mean the conventional type plicata in which the markings on the standards and falls are of approximately the same depth of color.

In 1959 the first cross of the project was made with PROGENITOR, using as a pollen parent the purple and white plicata ROYAL BAND. Two years later when the cross bloomed, *all* 33 seedlings turned out bicolors or strong bitones. The best of the purple and near-white bicolors was numbered 59-4B and saved for breeding.

This seedling was crossed with a blue and white plic seedling from NEW HOPE X DUTCH DOLL, with Sass F53-1 (a border-sized “washed” plicata of violet and white), and with TAHOLAH. In 1963 these seedlings bloomed. Although no tally was made of the segregation, it was obvious that the anticipated 5:5:1:1 ratio was not too far amiss. In this second generation from PROGENITOR, there did seem to be about an equal division between self and bicolor-bitone. The one-sixth plicatas appeared, including the “neglecta-plicatas” and “amoena-plicatas”. And, with TAHOLAH to furnish yellow ground color, there were “variegata-plicatas” as well. A number were saved for breeding, and the best of the lot, a smallish veronica violet and white amoena-plic from the Sass F53-1 X 59-4B cross which bloomed in intermediate season and rebloomed in the fall was registered as PREAMBLE.

The PREAMBLE series was carried through another generation. A sib to PREAMBLE crossed with TEA APRON gave a percentage of amoena-plics, including some with the “broken” pattern which TEA APRON throws. A cross to a “washed” plicata gave amoenas with the washed plicata fall. All through the crosses were quantities of “bitone-plicatas” or “neglecta-plicatas” — standards not white, but obviously too light to match the markings on the falls.

Continuing the search for variegata-plics, a smoky variegata from TAHOLAH X 59-4B was crossed with MY HONEYCOMB. In depth, I might add, as close to 250 seedlings were lined out from that cross! Several variegatas and variegata-plics were saved and used in further breeding. No count was made on segregation ratios, but — they segregated! The variegata-plics had yellow standards, yellow falls (or white falls bordered yellow), and red or brown plic markings on the falls only. MEXICALI came from this cross.

As all the preceding work began with PROGENITOR as the basic bicolor, small flower size and short stalks hampered the quest for bicolor plicatas in the tall bearded class. Consequently, in 1961 ROCOCO was crossed with WHOLE CLOTH. Yield from this cross was roughly half self and half bitone or bicolor. The two best seedlings from the cross were named DIPLOMACY and SHORT STORY.

In an attempt to regain the plicata pattern, hundreds of seedlings from 1964 crosses involving DIPLOMACY and white ground plicatas were lined out in April, 1965, and bloomed the following spring. Although the plic parent varied, the formula of plic X DIPLOMACY — that is, (*plic* X (*plic* x *amoena*)) — remained constant, and in the following table these eleven crosses are treated as one unit.

(It should be borne in mind that DIPLOMACY does *not* have white standards; they are light violet-blue. However, numerous cases have occurred in which a PROGENITOR line product, out-crossed to a self, gave off-spring with standards whiter than the bicolor parent. For instance, BRIGHT CLOUD, with white standards and blue falls, came from MELODRAMA outcrossed to a blue seedling.)

CROSSES 64-23 through 64-33: White Ground Plicatas X DIPLOMACY

	Self	Bitone	Bicolor	Total
Non-plicata	161	189	1	351
Plicata	52	13	3	68

It may appear incongruous in these crosses that selfs and bitones appeared in roughly equal numbers in the non-plicata group, whereas “self plicatas” outnumbered “bitone plicatas” four to one. This, I believe, is a visual evaluation problem. A bitone effect is far more obvious when comparing solid standards with solid falls than when comparing a narrow plic standard edging with a narrow plic fall edging, with much white ground area to confuse the eye.

It is apparent, however, that if large enough progenies are raised, it is possible to get amoena-plics even though using plic-blooded bicolors with tinted standards. However, once the amoena-plic pattern has been achieved, it should be much easier to produce more of this type.

Other crosses were made with DIPLOMACY in an attempt to add yellow ground color. MARICOPA, CHINQUAPIN, and HENNA STITCHES all gave working material, but by far the best cross was cross 64-37, SIVA SIVA X DIPLOMACY. About 25 from this cross were saved for possible use in breeding. Standard color ranged from ecru, beige, eggshell, molasses, amber, to clear canary yellow; falls were maroon, red-violet, to lavender. There were a few in this generation with buff-yellow standards, white falls, and rosy violet plic markings on the falls. The “washed” bicolors VAUDEVILLE and BALLYHOO came from this cross, as well as the strangely blended greyed cream and violet plicata FOGGY DEW.

Red and yellow combinations appear, with color that carries from afar. Best in color (but in need of other virtues) involve TAHOLAH, GENE WILD, and MAJORETTE with a pale bicolor plic from the 64-37 series.

One of the most interesting flowers to appear is MONTAGE, which came from a purple and white plic involving GENE WILD, MAJORETTE, and ROCOCO, crossed with a bright variegata sib to MEXICALI. This one has buff standards blended lavender on the midrib and white falls with a wide border of greyed lavender. Somewhat somber and strange, but not easily confused with anything else! And at this point the colors and patterns are going off in all directions. Some of the MONTAGE seedlings blooming this past spring are coded in the garden notebook in standard/fall descriptions as follows:

cream/cream edged lavender
beige/white edged greyed rose
light yellow/white edged violet
deep yellow/cream edged brown red
dark yellow/ivory edged light brown, dark red-brown hafts
cool white/white edged soft milky blue
yellow/cream washed violet
golden tan/golden tan washed red violet

The colors are sorting out, but refinements must be made. And what next? Add the tangerine factor. It should eventually be possible to have clear pink standards, white falls bordered strong purple, for one thing. PROGENITOR, you really started something!

*It should be noted that the variegata-plicata pattern exists without the use of PROGENITOR blood — as witness Gibson's ISLAND HOLIDAY, from his own GOLDEN FILIGREE X WILD GINGER. A number of his plicatas show a definite bitone tendency; MY HONEYCOMB and SIVA SIVA were used as parents in my crosses because they show this tendency, in combination with excellent branching.

Virtually all yellow-ground plicatas can be traced back to Sass lines, and in the early days of breeding for yellow-toned plicatas, plicata and variegata lines were much intertwined. The famous SIEGFRIED and the variegata CITY OF LINCOLN were said to be from the same cross.

WHEN IS A PLICATA?

MayBelle Wright

When is a plicata not a plicata?

Some years ago I wondered what I might learn about the vein structure of irises by allowing them to draw up dye through their stalks. I chose two stalks of white irises, one of which was HELEN McKENZIE. Unfortunately I have lost the record and cannot remember the name of the other. At any rate, when both had been standing in green dyed water for a couple of hours, I was surprised to find that while the unknown white blossom became an even all-over green self, Helen McKenzie had turned into a green on white ground plicata! Did this show that HELEN McKENZIE has plicata blood and therefore a different vein structure, or was there another explanation? I never did find time to carry this experiment any further, so these questions are still unanswered, but from then on I had an irresistible urge to play a joke on our local judges.

Several years went by because, having a late-blooming garden, I never seemed to have white irises available at show time. Finally, in 1968, I happened to be in Glen and Zula Hanson's garden the day before the show. The old urge came back, and I asked for and received two stalks of Celestial Snow, either of which could have won a blue ribbon. When I got home I put one stalk in a solution of red food color and the other in a green solution. Before long there were two of the most beautiful plicatas I have ever seen, one white with bright red plicating

and the other white with bright green.

The next morning I made out seedling entry tags giving their parentage as (CELESTIAL SNOW X VIAND COLOUR) and managed to put these creations on the seedling table at the show without being seen. Then I stood back a little way to listen to the comments of the judges. "Fantastic!", "They'll take the iris world by storm!", "What hybridizer could have produced such masterpieces and kept it a secret?", "MayBelle, what do you think of them?", etc., etc.

Just before time for us to start judging, the daughter of one of our members came along with her mother. She read one of the tags, then read it again and almost shouted, "Mother! That says (CELESTIAL SNOW X FOOD COLOR)!"

When the commotion caused by her statement subsided a bit someone said, "Unfold the tags; let's see who entered them." When the first tag was opened there was the hybridizer's name, "Ima Fony."

Instead of showing resentment, the judges all took the prank good naturedly. Some of them frankly admitted that they had been taken in. And they all agreed that any hybridizer who COULD produce such exquisite blooms would certainly find himself in the Iris Hall of Fame.

This was great fun, but I would *still* like to know why some white irises become plicatas when dyed and others do not.

Why Is a Plicata?

Alice Atchison

This question cannot be answered with certainty. But, an analysis of the problem should reveal possible solutions, and offer direction for further investigation.

The plicata is a genetically reproducible pattern, having anthocyanin present in streaks and dots in peripheral areas, and absent in central areas of petals*. There is considerable variation in the extent of pigmentation, ranging from a mere suggestion of color, as in SNOW CRYSTAL, through the classical "stitched" border of MINNIE COLQUITT, to the nearly solid form of CAYENNE CAPERS. Attempts to ascribe this range to the effect of "dosage" of known genes have been disappointing. Whereas, the "Apl" and "B" genes, as postulated¹, are essential for presence of anthocyanin, their respective roles have not been elucidated. If they are sequential structural genes in pathway of anthocyanin synthesis, they could account for occurrence vs non-occurrence of plicatas, but would not explain the wide range of variation within the plicata pattern. Infinite variation may never be ascribable to definite genotypes, but may become comprehensible through an understanding of the nature of pattern. It is obvious that pattern obtains, not merely by production of pigment, but also by its limitation to certain areas. What is involved is, not only the anthocyanin producing capacity of the genome, but also the mechanisms which determine when it should be operative.

A "structural" gene may be described as a strip of DNA which, when activated, has the capacity to specify the structure of an enzyme, and to initiate its production. Its activation is thought to be mediated by other genes, whose roles, in higher plants, are largely speculative. In bacteria, explicit postulations for gene activation have been made, notably by Jacob and Monod² and considerable experimental support has been obtained. For an inducible system,

*In this discussion, "petal" is used loosely, to refer to both true petals and sepals.

their hypothesis proposes a tripartite control of gene expression. Related structural genes are grouped in "operons", whose dormancy is controlled by the product of an independent gene designated "regulator". The repressive action of the regulator can be counteracted by small metabolites designated "inducers".

Although extrapolation from bacterial genetics should be made only with reservations, a fundamental mechanism for gene regulation would be expected to be universal, existing in its simplest form in bacteria, and exhibiting additional complexity in multicellular organisms. One distinction may be indicated in the evidence that, in higher organisms, dormant DNA exists in a tightly coiled state, complexed with a histone, which prevents its functioning. Removal of this protein could be an additional step in gene activation in flowering plants.

How many genes contribute to the entire gene regulatory process is not known; and for many hereditary predictions is of little concern. Whenever a structural gene is inherited with its normal regulatory mechanism, the whole complex can be considered as a unit. Thus, in a solid-colored flower, the anthocyanin specifying genes are uniformly activated in the very young petal, and remain functional throughout its subsequent growth and development. In such a situation, color production would follow an inheritance pattern indistinguishable from single gene control.

However, in the case of the *plicata*, it is apparent that, at an early stage of petal formation, two strains of cells occur. Those in which the appropriate DNA is activated produce anthocyanin. Cells in which the DNA remains dormant (or, having been activated, subsequently is deactivated) are colorless. Perpetuation of these strains gives rise to the streaks of color that characterize the *plicata*. Thus, the *plicata* demonstrates the operation of a gene regulatory system that is obscure in solid-colored flowers.

In order to determine where the regulatory role could be applied to factors known to contribute to anthocyanin production, several alternatives must be considered:

- (1) Either "A" or "B" may be an anthocyanin structural gene, and the other member of the pair, a regulator or an inducer gene.
- (2) Both "A" and "B" may represent aspects of the activation process, one serving as regulator, and the other, as inducer gene. (This would presuppose that anthocyanin structural genes were ubiquitous in dominant form, and have not yet been observed in breeding tests.)

These alternatives cannot be resolved directly through observations on inheritance of solid-colored forms, but partial solution may be obtained through localization of the *plicata* allele, "Apl". Although several alternate roles for this allele are biologically feasible, certain characteristics of the *plicata* pattern strongly suggest the function of "inducer" for this gene. Primarily, there is a correlation between location of anthocyanin and the structure of the petal. In *plicatas*, anthocyanin is concentrated in epithelial cells overlying vascular elements. The obvious inference would be that a diffusible inducing substance was transferred from the vascular region to the epithelial layer of cells. According to this assumption, the difference between a solid colored flower and a *plicata* could be simply quantitative. A copious supply of inducer would reach all epithelial cells. A limited supply would be diluted in transfer so that distant cells would receive below-threshold levels. Alternatively, the differentiation could be temporal: the earlier the production of inducer occurred, the more general would be its distribution. (It is tempting to speculate that limited *duration* of inducer production at an early stage would result in discrete borders

(as in typical plicatas), and that limitation in *quantity* of inducer produced over an extended period of time would account for prominently "veined" patterns.)

Within established models for gene regulation the "inducer" is the only element for which an extrinsic source can be postulated. Consequently, the role of "inducer" gene is assigned to "A" and "Apl", and this locus is presumed to be activated in cells extraneous to petal epithelium.

The nature of the alteration of the normal "A" gene which produced the "Apl" allele is a matter of conjecture. A "temporal" difference in functioning of these two alleles could be explained by a translocation of an original "A" gene from a region of chromosome that normally was euchromatic (uncoiled and functional) during the entire development of the petal, to a region wherein its neighboring genes were operational only during certain stages of differentiation. Their periods of dormancy would affect the "A" gene similarly, making it impervious to its usual regulators, and, instead, responsive to the activation schedule of its new neighbors. The translocated "A" gene could be considered an "allele" of "A" by virtue of the fact that its susceptibility to activation had been altered. An alternative to this "position-effect" would be the postulation of an outright mutation which reduced the efficiency of the "A" gene, possibly by producing a defective enzyme that was incapable of functioning except when augmented by some co-factor. This would account for a "quantitative" restriction in the product of the "Apl" allele. It is likely that more than one spontaneous alteration has occurred in "A" genes, and that a number of alleles exist, producing a variety of patterns. Heterozygosity among such alleles would produce further gradations in pattern.

Either of the above explanations for the origin of an "Apl" allele would be compatible with the proposed role of "inducer" for this locus.

The precise nature of the product of the "inducer" gene is yet to be determined. It may be a hormone, that is, a specific substance transferred to petal epithelium from another tissue. In the target cells it could combine with the product of the regulator gene, and prevent its repressive action. This would seem to be its most efficient mode of action, but other sites should be considered. Actually, any step from transcription of DNA message into RNA, to protein synthesis and enzyme action could be affected. Or, possibly, the "inducer" may be a non-specific factor, producing a cytoplasmic condition (altered pH, ion concentration, glucose level, etc.) that promotes dissociation of repressor from operator.

Whatever the nature of the inducing substance, it remains evident that it is related to the vascular system, either conducted via mature vessels, or supplied at an earlier stage, perhaps concurrently with differentiation of vascular elements. It is possible that anthocyanin-gene activation is ancillary to some other function of the inducing substance, in which case, the extent of pattern might be influenced by other factors, such as those governing the structural development of the petal. This could account for nuances in pattern beyond the variation predicted by principal gene segregation.

In summary, it is considered that a structural gene, "Apl", (with its appropriate activating mechanism) is responsible for synthesis of the inducing substance at a specific time and in a specific amount, in certain secretory cells.

Thus, the hypothesis herein proposed is that the plicata pattern is determined by, at least, two independently inherited genes: an anthocyanin synthesizing "structural" gene, activated selectively in petal epithelium by an

exogenous inducing substance produced by another gene, activated in extraneous tissue.

Genotypically, the plicata may be represented by "Apl" and "B", as previously postulated, with the added inference that the expression of an anthocyanin-synthesizing gene is dependent upon the "inducing" substance produced by "Apl", and with the reservation that additional factors may be contributory, but are not presently identifiable.

It is hoped that this hypothesis will provide a rationale for interpreting observations in plicata inheritance that will lead to a more definitive analysis, and that the plicata may prove useful in the elucidation of the problem of gene expression.

It is also hoped that an understanding of the nature of plicata production will reconcile the current conflicting single-gene hypotheses which have been the source of unfortunate controversy.

ADDENDUM

Some of the postulates in the preceding article have experimental support. The designation of the plicata gene as an allele of "A" was based on results of a test originally proposed by Randolph and Sturtevant³ to determine whether the plicata allele occurred at the same locus as the recessive white gene present in JAKE and MATTERHORN. In this test, as applied by the writer, a cross of (MATTERHORN x BLUE RHYTHM) X MATTERHORN produced 3 whites, 25 solids, and no plicatas. If the plicata allele occurred at an independent locus, it would be presumed to be present in MATTERHORN in homozygous state (since MATTERHORN was derived from plicatas), and would produce plicatas: solids in a 1:5 ratio on the backcross. According to my calculations, the occurrence of no plicatas in a population of 25 with an expectancy of 1:5 would have a probability of approximately 1%. This would preclude the presence of plicata genes in MATTERHORN, and would support the assignment of the plicata allele to the same locus as that of the "solid" gene in BLUE RHYTHM, and the recessive "white" gene in MATTERHORN. These are members of the series designated "A", "Apl", "a".

The contribution of the "B" gene to the production of anthocyanin in plicatas is a logical corollary to its complementary role in anthocyanin production in solids(1). Additionally, direct implication of the contribution of an independent gene is found in results of a cross of "Matterhorn" by a "Snow Crystal" type plicata. If the plicata pattern were controlled exclusively by a single allele, the extent of pattern would be determined by "dosage" of this gene. A faintly marked plicata would be presumed to be "simplex" for this factor; and, when crossed with a white that had been shown to contain no plicata genes, would produce only faintly marked plicatas and whites in a 1:1 ratio. Actually, the above cross produced 23 whites, 5 faintly marked plicatas, and 30 plicatas more heavily marked than the plicata parent. The occurrence of more heavily marked plicatas is interpreted to refute the hypothesis that the extent of plicata pattern is determined solely by "dosage" of genes at a single locus, and, conversely, to implicate a contribution by an independent gene, possibly the "B" gene, or a gene as yet unidentified.

REFERENCES

1. Atchison, A., 1967, Complementary gene basis for anthocyanin production. *Bul. Amer. Iris Soc.* 185, 10-11
2. Jacob, F. and Monod, J., 1961, Genetic regulatory mechanisms in the synthesis of proteins. *J. Mol. Biol.* 3, 318-356
3. Randolph, L. F. and Sturtevant, A. H., 1959, in "Garden Irises" (L. F. Randolph, ed.) p 349, *Amer. Iris Soc.*, St. Louis, Mo.

Inheritance of the Plicata pattern

Frederic and Mary Megson

The genetics of plicata, which continues in high popularity year after year, is the subject of increasing interest and discussion. Two modes of inheritance are considered possible. One, which can be called the "allele hypothesis," argues that plicata is the modified form of an anthocyanin gene — that is, it results from a mutation of one of the genes required for anthocyanin production which left the gene incapable of producing enough pigment to cover the flower petals completely. The other, which can be called the "independent gene hypothesis," assumes that the anthocyanin genes are in their normal states but that a separate gene, which somehow controls the development of distribution of pigments in the petal, is defective. It is the purpose of this article to review what is known of plicata inheritance, to suggest what crosses are needed to resolve the problem, and to call attention to some very recent discoveries which will make this task considerably easier.

Let us begin with the discoveries, since they and some associated crosses provide simple and reliable data on which to base our discussion. Two years ago we obtained from crossing Dr. Randolph's *I. pallida*, WHITE MUTANT, with the dark blue-violet HELIANE only plicata seedlings. Last year from the white pallida with a recessive white seedling, 136-1, we obtained only full blue-purple offspring. Neither the white pallida nor 136-1, which is from PLUIE D'OR X self, contains any anthocyanin whatever. These diploid crosses, together with some instructive additional ones, are summarized below. All of them were protected from bee contamination by banding and/or stripping both parents as previously described^a and all but one of them included some reciprocal crosses. The number of seedlings from each example is shown in parentheses.

Type 1. (pl_a-White X w₁-White: *I. pallida*, WHITE MUTANT, gave only full purples with 136-1 (119) and with GOLD IMPERIAL (67). About one-half of the latter seedlings contained some yellow.

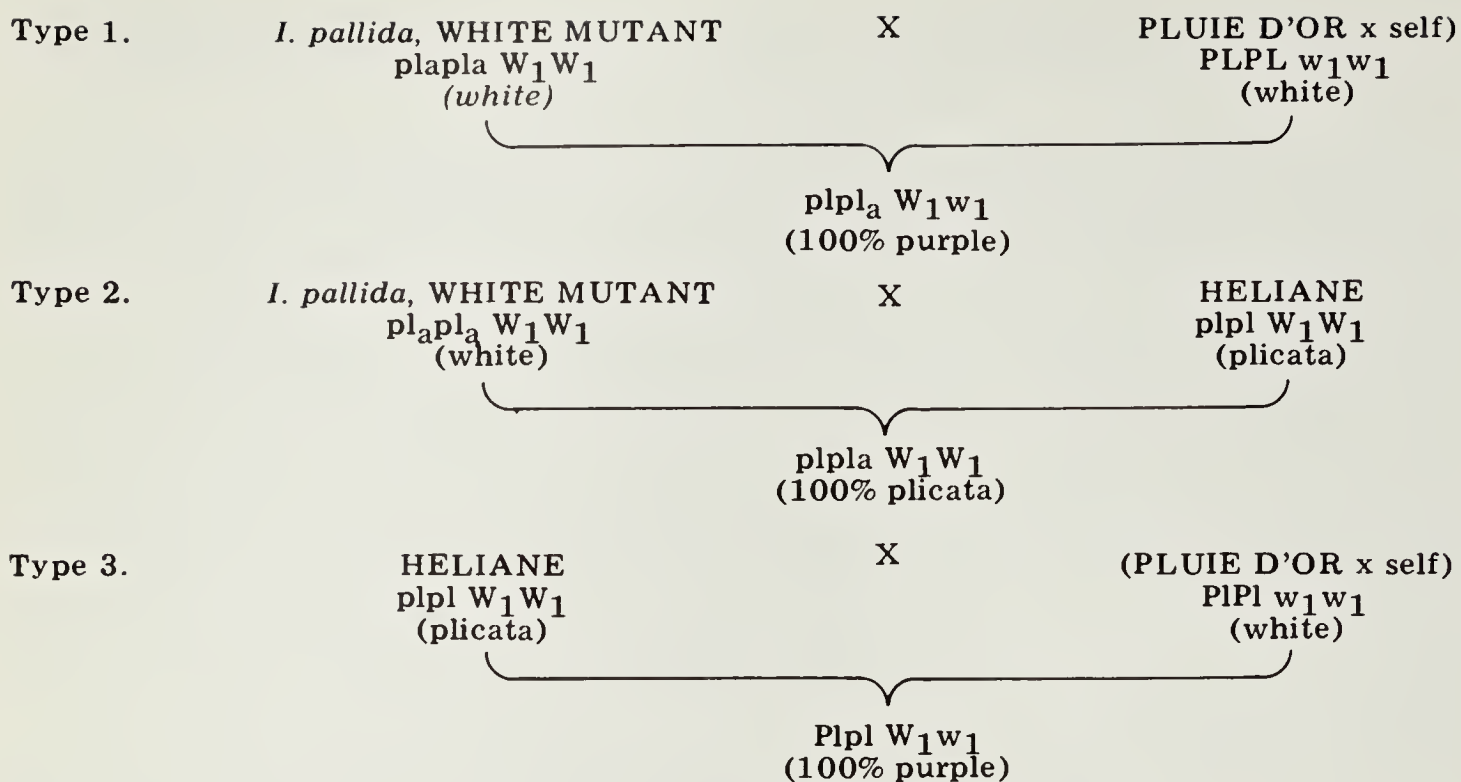
Type 2. pl_a-White X Plicata. *I. pallida*, WHITE MUTANT, gave only plicatas when crossed with HELIANE (34), with *I. swertii* (24) and with MINETTE (46).

Type 3. w₁-White X Plicata. 136-1 gave only full purples with *I. swertii* (25) and with HELIANE (52). About one-fourth of the latter offspring were neglectas of low contrast.

It is evident from the above that the "plicata all-white" gene, which had previously been known only in tetraploids, has now been found in the diploid *I. pallida*, WHITE MUTANT. By means of 2n x 4n crosses, John and Kay Tearington have shown that this diploid pl_a gene is identical with the pl_a gene of the tetraploids^b. However, the significance of the crosses listed above for our understanding of plicata inheritance is that we now have at the *diploid* level the same type of data that Randolph and Sturtevant in *Garden Irises*^c and Alice Atchison in her recent article in the *Bulletin*^d examined at the *tetraploid* level. Let us now return to the two hypotheses and try to determine whether the new data will enable us to decide between them.

The Allele Hypothesis

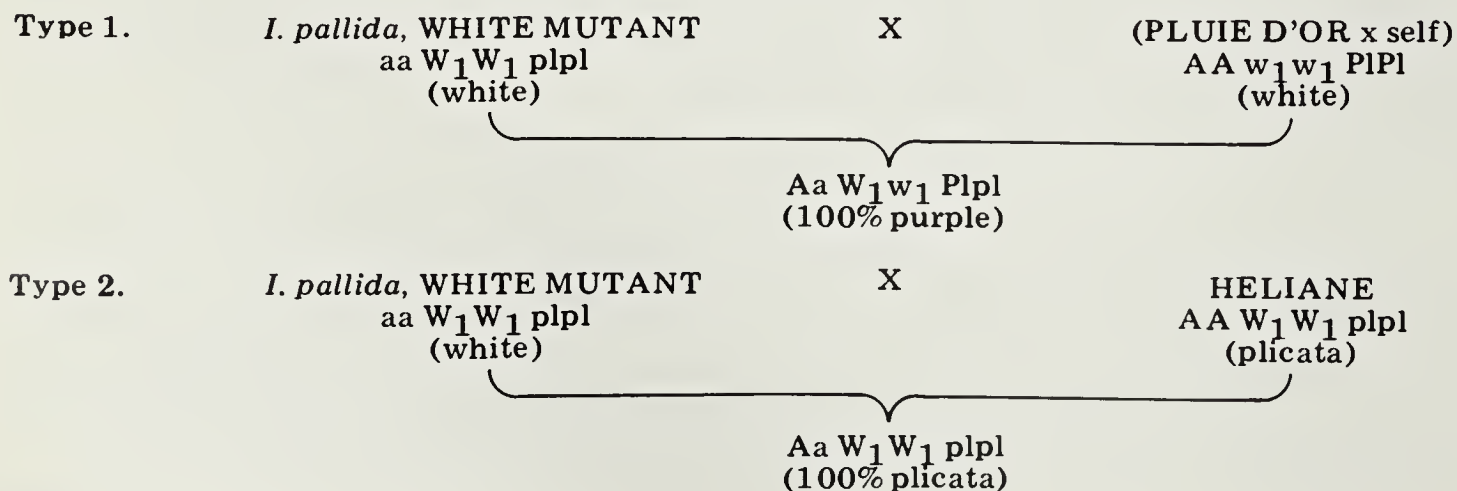
As mentioned above, only one anthocyanin gene is supposed to be involved and it is presumed to exist in three allelic states — full purple, plicata and all-white. Using Randolph and Sturtevant's gene symbols, we can label these Pl, pl and pl_a. Since a second anthocyanin gene is involved in the above crosses, W₁ and w₁ will represent the normal purple and defective all-white forms of it, respectively. The three types of crosses can therefore be diagrammed:



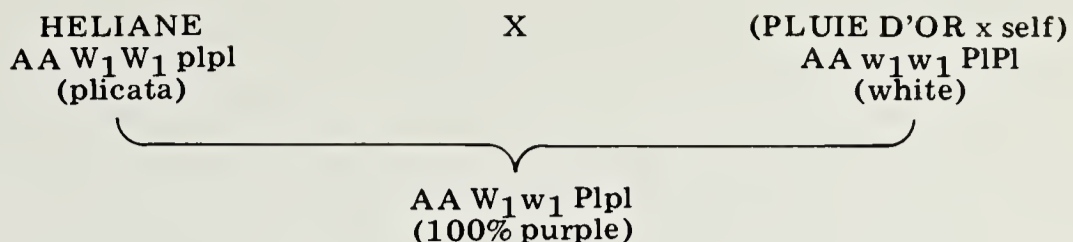
A comparison of these three diploid crosses with the three tetraploid crosses diagrammed by Alice Atchison reveals that they form a quite similar pattern, except that in the third cross she used for illustration a plicata seedling from the second, whereas so far we have used only the original plicata. Incidentally, in order for the offspring to be 100% of the types given in her diagrams, each parent must be assigned not two but at least three identical genes of each kind.

The Independent Gene Hypothesis

Here it is presumed that any one of several anthocyanin genes may be involved, which may exist only in *two* allelic states — full purple and all-white. Let us denote these *A* and *a*, respectively. Again W_1 and w_1 will be used to represent a second anthocyanin gene. In addition, a non-anthocyanin gene is presumed involved which can likewise exist in two states — full purple (i.e., full coverage of the petals) and plicata (i.e., partial coverage of the petals). Let us denote these *PL* and *pl*, respectively. A basic premise of this hypothesis is that the plicata gene cannot be expressed unless it has the normal purple genes to modify. Hence the white pallida may be symbolized as $W_1 W_1 \text{plpl}$, indicating that the plicata modifiers are present but are prevented from being operative by the *aa* genes. Applying these symbols to our set of three diploid crosses we get:



Type 3.



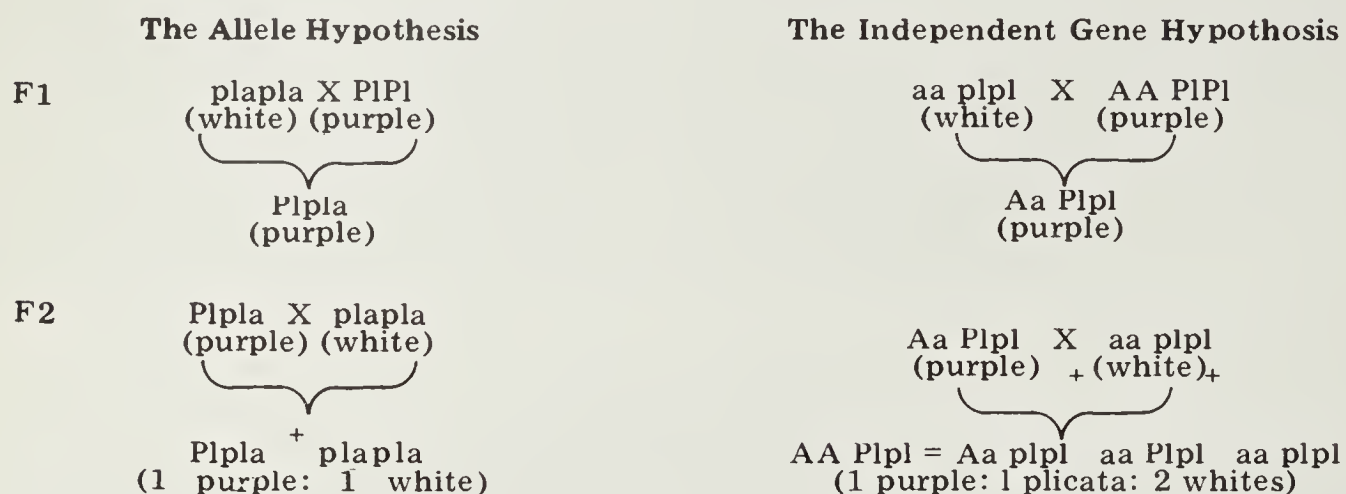
The two hypotheses are mutually exclusive (a plicata “all-white” must either contain the pl gene or not contain it), hence one of them must be incorrect. Since the results of the diploid crosses listed above can be explained by either hypothesis, these data are insufficient to establish which is the correct one. As a matter of fact, the three tetraploid crosses cited by Alice Atchison can also be written to conform to independent gene hypothesis exactly in the same way as we have done for these diploid crosses. Hence the data given in her article are also insufficient to explain the mode of inheritance of the plicata pattern. It should be pointed out, however, that the purpose of her article was to illustrate complementary gene action for anthocyanin, not to prove anything about plicata inheritance.

The Testcross

What is needed, then, to determine which of the above hypotheses is correct? Randolph and Sturtevant have indicated the type of cross which will solve the problem, providing it is clear cut and without interference from irrelevant genetic effects. The available diploid and tetraploid data indicate that the allele hypothesis requires that the “plicata all-white” iris must contain *no* plicata genes, whereas the independent gene hypothesis requires that it be homozygous for the recessive plicata “distribution” gene. Hence, if a “plicata all-white” were crossed with any homozygous purple, the presence or absence of plicatas in the offspring from backcrossing the full purple F₁ to the plicata-all-white would be decisive. The critical test of allelism vs independent inheritance cited by them was the tetraploid backcross (THE ADMIRAL x ELSA SASS) X ELSA SASS. (The yellow ELSA SASS, like the white MATTERHORN and JAKE, contains no anthocyanin and is known to give plicata offspring when crossed with plicatas.) As originally reported in the *Bulletin*^f this cross gave “33 purples of various shades and 4 lemon yellows; 5 of the purples had spotted hafts suggesting plicata influence.” On the basis of these results they favored the allele hypothesis. The purples showing “plicata” influence do bring a note of doubt, however, since the plicata comes in such a wide variety of patterns that these five might represent an extreme modification of plicata. As a testcross this has not been wholly convincing, and it is to be hoped that some interested hybridizer will take it on himself to improve on it. For example, are any plicatas obtained from (JAKE x purple) X JAKE, or from (MATTERHORN x purple) X MATTERHORN? Whatever purple is used must be demonstrated to be free of plicata genes by crossing with a plicata in a separate test.

It may seem surprising that the critical test of these two hypotheses of plicata inheritance would be presence or absence of plicatas from the cross (pl_a-white x purple X pl_a-white. This is the case because we already have all the other necessary data in the tetraploid crosses cited by Alice Atchison and by Randolph and Sturtevant, and in the diploid crosses cited here.

The desired testcross can be diagrammed more simply on the diploid level. As mentioned above, the independent gene hypothesis portulates that the plicata gene can be expressed only if it has some anthocyanin to work on. Hence we must cross the pl_a -white *I. pallida*, WHITE MUTANT, with a homozygous purple pallida (most species pallidas can be expected to be homozygous). All of the offspring of this cross will be purple, regardless of which genetic mechanism is involved. Then when we cross any one of the F_1 purple offspring back to the white pallida, the resulting testcross seedlings will tell us which hypothesis is correct. In the diagram below the W_1W_1 pair of genes is omitted, since it is present in both parents, regardless of the respective hypotheses.



Last year we crossed the white pallida with the red-violet *I. pallida*, DUBROVNIK. When these seedlings bloom we will backcross some of them to the white pallida. If there results only purples and whites, we shall consider the allele hypothesis the correct one; but if we get about 25% plicatas, then we must bow to the independent gene hypothesis. Since planned iris breeding is unavoidably a little time-consuming, this program will take another three to four years to complete. Hence this interim report is presented in the hope that some helpful discussion will be brought out.

Although the foregoing remarks are concerned with only one aspect of plicata inheritance, there are many interesting facets to consider. Some of the more intriguing are:

1. Are all plicatas genetically the same; that is, are any instances known where plicata X plicata gives full purple?

2. Is there a series of plicata alleles, e.g., are the allover "dotted" and "sanded" patterns alleles of plicata? (An easy test of whether any given pattern is allelic to plicata is to cross it with pl_a -white and observe whether the pattern reappears in the offspring.)

3. The deep blue-violet HELIANE mentioned above is a neglecta-plicata with standards just a little bluer than the falls. Are there also authentic amoena-plicatas? Kenneth Kidd has suggested recently in the *Bulletin* that tetraploid amoena-plicatas can be obtained readily from crosses of amoenas with plicatas^g. If it really is that simple, why are amoena-plicatas so scarce?

Reasons are given for regarding the nature of plicata inheritance as an unsolved problem. Since the pl_a gene has now been shown to be present in the diploid *I. pallida*, WHITE MUTANT, an additional means of resolving the question is now available. It is hoped that hybridizers will be stimulated to

search for solutions among both the diploids and the tetraploids in the near future.

aThe *Medianite* 9, 9-10 (1968)

bThe *Medianite* 10, 36-7 (1969)

c*Garden Irises*, pp. 342-352, AIS 1959

d*Bul. Am. Iris Soc.* 185, 10-11 1967

eSince *Pluie d.Or* is of the wlwl type (see ref. c),
then *Pluie d.Or* X self must be wlwl.

f*Bul. Am. Iris Soc.* 119, 56-7, 1950

g*Bul. Am. Iris Soc.* 193, 83-4, 1969

Combining the Progenitor Factor with the Plicata Pattern and the Tangerine Beard

D.C. "Charlie" Nearpass

Back in 1958 I made my first crosses — the start of a hobby program of raising iris seedlings. The same year I bought WHOLE CLOTH, and when it bloomed the next year started to explore the ways in which the new dominant inhibitor of anthocyanins in standards could be combined with other factors in the tall bearded and 48-chromosome iris complex.

Among other ideas, the thought occurred to combine the PROGENITOR inhibitor with the plicata pattern and the tangerine beard. Perhaps this could be done if there were no close linkages between the three factors. Thus, tangerine (pink, cerise, coral, red, etc.) bearded plicatas might be obtained in which little or no anthocyanins were present in the standards. The standards would thus be true pink, flamingo pink, peach, orange or white, such colors as occur in the acyanic (lacking anthocyanins) selfs of the tangerine bearded category. To consider all other factors which make up a quality modern iris is quite another matter.

The information had come from Mr. Cook that the new PROGENITOR inhibitor gene for inhibition of anthocyanins in standards (I_s) was dominant to the presence of anthocyanins in the standards. The plicata gene (pl) was known to be recessive to cyanic non-plicata (flowers which have anthocyanins in standards and falls but which do not exhibit the plicata pattern — such as blue and violet selfs, violet bitones, reds and purples). The tangerine factor (t) was also known to be recessive to non-tangerine, or yellow beards and flowers. Until the crosses were made and bloomed, it was not certain that independent assortment of the genes was possible and that the PROGENITOR factor as well as the plicata pattern could be expressed in the same flower.

When the odds were calculated, based on independent assortment of genes, the problem was seen to require a fairly large number of seedlings in a backcross F_2 in order to obtain just a few of the required type. The plan was: First, to cross the Cook PROGENITOR strain with the available tangerine bearded plicatas. Second, to select from the F_1 only those plants which had the standards inhibited by the PROGENITOR factor. Third, to backcross these selected plants with the best available tangerine bearded plicatas. Fourth, to observe the results and carry on from there.

The first crosses toward the goal were made in 1960. These included: CAPTAIN'S LADY (O. Brown 1955) X EMMA COOK, CAPTURED HEART X MELODRAMA, PRETTYFIELD X NEW ADVENTURE, and other similar crosses.

When the F_1 bloomed in 1962 and 1963, no plicatas and no tangerine bearded flowers were found, showing that these Cook strain plants were neither carriers of plicata nor carriers of the tangerine factor. The backcrosses made in 1962 included such as NEW ADVENTURE X (CAPTAIN'S LADY X EMMA COOK), (PRETTYFIELD X NEW ADVENTURE) X MISS B HAVEN and NEW ADVENTURE X (CAPTURED HEART X MELODRAMA).

From these crosses about 150 plants bloomed in 1964 and 1965. Of these, there were 9 or 10 amoena - or variegata-plicatas with yellow beards, 7 or 8 pink and violet bicolors and one tangerine bearded variegata-plicata, or PROGENITOR-tangerine-plicata, the combination I had been looking for. This plant had flowers with clear pink, not orchid-pink or violet, standards, with falls having the plicata pattern and a tangerine beard. It had the desired combination of factors, but little else to recommend it.

During 1964 some of the F_2 amoena- and variegata-plicatas and pink and violet bicolors were backcrossed again with the tangerine bearded plicatas. Of about 200 plants of the F_3 most of which bloomed in 1966, some 15 or 20 tangerine bearded, pink standard plicatas were found. These results in the F_2 and F_3 were about the expected numbers from the possible genetic constitution of the parentage, and indicate that there are no close linkages between the three factors, PROGENITOR inhibitor of anthocyanins of standards (I_s), plicata pattern (pl), and tangerine factor (t).

One of these tangerine bearded plicatas with peach pink standards was registered as PEACH PAISLEY in 1968. It was the best of the small crop with respect to form and color pattern. It does not have pollen, but is a good seed setter. This plant was registered only so that I could claim to have registered the first plant to combine the PROGENITOR inhibitor with the plicata pattern and the tangerine beard. Some small progress has been made since 1966. The available tangerine bearded plicatas have not been high quality flowers, and persist in transmitting small size, tailored form and narrow hafts.

Meanwhile, from other directions, some hope for real progress has appeared. From a cross, in 1960, of NEW ADVENTURE X MEMPHIS LASS all the seedlings were yellow bearded plicatas, but one plant resembled the pollen parent in form, ruffling and size. This was crossed with MISS B HAVEN and from the seedlings one quite nice tangerine bearded plicata was selected. This one has broad hafts, some ruffling, good size and a fairly neat plicata pattern. It was registered in 1968 as JEALOUS LOVER. It appears to have promise as a breeder. Crossed into the PROGENITOR-tangerine-plicata line, it gave many flowers that were improvements over the other parents. A fine tangerine bearded plicata, APRIL MELODY, was obtained the introduction year. When it bloomed in 1968 most of the flowers were rained on so I did not get very many seed from use of its pollen. It got a good workout in 1969 so there is much hope for the future crop.

These new and improved non-PROGENITOR tangerine bearded plicatas crossed into the strain with inhibited standards will give all plicatas with tangerine (red, coral, cerise, etc.) beards. About half will have standards inhibited by the PROGENITOR factor. However, it will be many years before these new color patterns will have the present quality of the blues and whites.

Various courses for improvement of this line are open to the iris breeder. One is to line breed, or intercross, the PROGENITOR-tangerine-plicata line. Another is to continue to backcross with non-PROGENITOR tangerine bearded plicatas. These methods will produce tangerine bearded plicatas with inhibited standards in each generation.

Other types of crosses may have to be used to bring in desired qualities. The new combinations (non-tangerine) of the PROGENITOR factor with the plicatas, such as Keith Keppel has introduced, may be used, or the new combinations of the PROGENITOR factor with the tangerine gene, such as have been introduced by Opal Brown, L. Peterson, Melba Hamblen, Tell Muhlestein and Steve Moldovan will make it easier to start new lines toward the same goals for which I have been working.

Plicata Patter

Jim Gibson

Much has been written about plicatas, and several interpretations been given to the meaning of the name, such as feathered, or arranged in pleats, as in a fan. It has been written that "Botanically a plicata has no recognition but is identified by its distinctive markings." These have been classified into five or more types, but the distinction between these types is not clear cut.

The plicata pattern seems to have been in existence for hundreds of years. Professor Sidney Mitchell writes, "The first record I know of the existence of the plicata pattern, I found in the Prado in Madrid where I came across a flower picture of a bunch of bearded iris done by the Flemish artist Jan Brueghal, Circa 1570-1625. In that picture is unmistakably a blue edged plicata with white ground, so the pattern must have existed in gardens well over three hundred years ago." In 1789 records show that Lamarck applied the name plicata to a collection of garden form of irises then current, and in 1833 mention was made of plicatas in the listing of E. Van Berg in Germany. In 1873 Peter Barr used the word plicata as a group term.

My hybridizing for plics began about thirty years ago when they had straight-hanging, narrow, almost irretrievably pinched falls, and narrow, sometimes gaping, standards. Not particularly liking the plicata at the time and desiring to work in some area where there seemed ample room for progress, I was challenged to try for improvement in this line after a talk with the late Professor Sidney Mitchell. He advised me to try to develop a line of my own. Even it should be used sparingly with any outcross, since this would most likely repeat or set more firmly those faults already in abundance in plicatas of that day. Another bit of advice, well taken, was to be ruthless when it came to discarding seedlings. The mountains of discards in the past thirty years attest to my having followed that recommendation. An average of one plant saved per thousand is a good goal. Much credit is due Larry Gaulter, whose constructive criticism and encouragement helped to sustain my sometimes faltering enthusiasm in the perplexing task of improving the plicatas. His many years of experience and love for this particular type of iris was invaluable in helping evaluate the results and giving suggestions for the future.

After several years of hybridizing I finally got a seedling that seemed to be good enough to start my line. The cross was TIFFANY and MME. LOUIS AUREAU, producing a ruffled rosy heliotrope on a light yellow background.

This was my first seedling, introduced in 1949. It was a proven rebloomer, and I gave it the name GIBSON GIRL. It eliminated many of the objections to the plicatas of the day and was an excellent parent, carrying to its children fine form and ruffling. WILD GINGER, WILD APACHE, GAY TRACERY, GOLDEN FILIGREE, RADIANT APOGEE, and KILT LILT were some later developments having GIBSON GIRL as a progenitor.

In reviewing the early hybridizing records of those working for the improvement of the plicata, one is surprised at the number of times MME. LOUIS AUREAU has been used. This was introduced by Cayeux and received the French Dykes Medal in 1934. The Sass yellow ground plicatas, SIEGFRIED, ORLOFF, and TIFFANY were also much used. I feel MME. LOUIS AUREAU gave us the excellent ruffling, size and substance of bloom that was so needed in the early plicatas. One must conclude this plant has done as much for the improvement of the plicata as SNOW FLURRY has for the contemporary blues, whites and other colors.

Plicatas have not been too popular throughout the years, SAN FRANCISCO being the only plicata to win the Dykes Medal (1927) until STEPPING OUT was awarded it in 1968. About three years ago the Oregon Highway Department called for bids on many thousands of iris plants for the beautification of their highways. Absolutely no plicatas were to be included in any bid. Every time I drive up Interstate Highway No. 5 and enjoy the beautiful display of irises blooming in May, and see no plicatas, I realize that discrimination exists in many areas.

From many gardens are now coming plicatas that show as fine formed flowers and as superb branching as is to be found in any other variety. Many years ago Robert Schreiner made the statement, "I believe the field in plicatas is just beginning to be explored, and it will be hard to exhaust the possibilities". How wise was the statement when you view the beauties now being introduced. It is as true today as it was then. Many new colors are appearing in the markings, both in the ground colors and in the beard. Form, texture, ruffling and lace as well as branching are improving each year. This is happening in our garden, and I'm sure in others as well. I think the near future will be most exciting to all irisarians as the new plicatas make themselves known.

Another indication of change in the plicata pattern was the difficulty I was having in classifying many of the new ones into the registration guide lines as they were. In many the standards are a solid color and may not be repeated in the falls, which usually have a pure white, cream, yellow, peach or light violet ground. In others, some judges call them variegata plicatas, in which the standards are solid yellow or bronze and the falls may repeat the yellow or be another color or a combination of colors, with a white or light cream ground in the falls only. Another type that I had trouble classifying was the blending of two or more colors, both in the standards and falls. This has largely been taken care of by the Color Classification for irises adopted by the Board of Directors, Nov. 2, 1969.

It has been suggested that perhaps it would be interesting to follow through the steps a hybridizer would take in developing a new iris worthy of introduction. I don't believe every hybridizer uses the same approach to accomplish this, but that one of several approaches may be used, depending on circumstances and in many cases a combination of methods. Four of the many possible approaches used may be —

1. Cross whatever blooming plants are available due to the earliness or lateness of

the bloom.

2. Set out to produce something entirely new with plants you may have available.

3. Use the best varieties of any one type, not to produce something different as such, but to improve qualities of that variety, such as a true red, more ruffled blue, etc.

4. "Fool around" with nothing in particular in mind — just crossing.

I used the first approach in producing my line of brown plicatas markings on white, cream or yellow ground. Of these NATIVE CHIEF, WILD GINGER, and KILT LILT are good examples. In 1940 while visiting in Prof. Mitchell's Berkeley garden I was admiring an unusual colored iris seedling, a self whose color was an elusive shade of brown, favoring a copper-red influence. I had not seen this shade before. Observing my interest, he asked if I would like a stamen from it. I replied that I would, but due to the earlier bloom season of our area (San Joaquin Valley), I doubted that I would have anything with which to cross it. On returning home I found only one iris in bloom, a plicata, SACRAMENTO (Mohr-Mitchell ('29)). It had a white ground heavily edged red-purple. The result of this cross was the beginning of a long line of plicatas with various shades of this copper-red on white or cream grounds, KILT LILT to date being the apex of the line. Last year, after almost 30 years of hybridizing, a self has appeared in the seedlings, almost identical in color to the stamen plant from which the start was made.

In creating my near-pink line of plicatas I used the second method — that of setting out to produce something entirely new with plants available. I chose as my beginning parents here, a beautifully formed plicata seedling of all good qualities. It had a light orchid markings on a white ground. The other parent was BALLERINA, a light flamingo pink self — very broad petaled with taller than average stems for this color. From these parents I started on a long road to produce my objective, a lacy lavender pink plicata on a light lavender-pink ground with a tangerine beard. Ten years and ten thousand seedlings later I had almost given up — making one last cross — six seeds. I had saved nothing of value up to this point, and decided it was a lost cause. But from this last cross came APRIL MELODY (37-IPFA), having all the above qualifications. It was awarded the Region 14 seedling cup, an HC and an HM. I feel it will be a milestone in this classification and well worth all the past toil, sweat and backaches. Many fine varieties have come from using this variety in hybridizing, RIPPLING ROSE being a fine example. One cannot convey the joy of creating new colors and forms.

Another goal that I had set was to develop a plicata with a lace band of a different color. After several years I abandoned this, for my progress was so slow. I continued to use the best seedlings resulting from these crosses, not because of any colored lace, but because of their other good qualities. To my surprise this different color banding and lace has begun to show up on its own initiative, due I'm sure to this earlier period of crossing.

I always look forward to spring and further development in my plicata lines. I am especially interested in developing pink with tangerine beards, blue black markings on white ground and brown and near brown markings on white, cream or yellow ground. The further development of lace, different colored beards and fancies, marbled or all over stippled effect in various colors are also of prime interest to me.

I predict that the future will show many fine advancements in the quality of

plicatas when people who have had so many years of active interest in them continue to improve their own lines. I always look with keen anticipation to the results from other gardens, especially from the Schreiners, Chet Tompkins, Larry Gaulter and Tom Craig. They have added much.

After forty-one years a plicata rated a Dykes Medal. We plicata hybridizers hope that it will never take that long again.

Dwarf and Intermediate Plicatas

Bee Warburton

When DALE DENNIS burst upon the iris world it was a shock to breeders of small bearded irises because plicata from breeding with *Iris pumila*, of which CRETICA is a clone, had been considered an impossibility. In fact, DALE DENNIS was repudiated by some; however Earl Roberts had made the same cross as Dorothy Dennis' MARIPOSA MIA X CRETICA, and he also bloomed a plicata from the cross the following year. He named it LITTLE DOGIE. In 1955, the year that DALE DENNIS first bloomed, the word was quickly passed via the grapevine and every smidgin of CRETICA pollen that could be begged, borrowed or stolen was put onto plicata TBs, and in some cases, onto tangerine-bearded TBs. In 1957 and 1958, when these bloomed, none of the pinks gave first generation pink dwarfs—these had to wait for advanced generation crosses, but almost every plicata cross had in it at least one plicata.

One of the unanswered questions is whether or not CRETICA and other forms of *I. pumila*, and *I. attica*, carry the pl factor. It would seem probably not, since a plicata of these species is not known; what selfing of CRETICA has been accomplished is reported to have given white in several instances, indicating that it does carry recessive white, presumably pla. As Fred Megson has shown, the white mutant form of *I. pallida* carries the recessive white, and yet in this case also, a plicata form has not been seen in the wild. The question therefore rises, is it a hybrid pattern?

Soon after the occurrence of the plicata in the lilliputs bred with CRETICA itself, followed other occurrences involving first a possibly selfed-CRETICA seedling of Dorothy Dennis' crossed onto MINNIE COLQUITT, which gave Jack Goett KNOTTY PINE; outcrossed, this resulted in a series of plicatas of improved form and in various color patterns. In fact, KNOTTY PINE was the greatest single factor in the improvement of all the median plicatas, and is in the pedigree of many of the best intermediate plicatas. CRETICA itself produced plicatas in advanced generations from non-plicata tall bearded (SNOW VELVET, ZANTHA); plicatas also appeared unexpectedly from advanced crosses not involving either CRETICA or plicata TBs (Great Lakes, Snow Flurry). Fitz Randolph bloomed one from CHANCELOT X *I. attica*, CHANCELOT being from (*I. attica* X Golden Hind). Oddly (to me) he didn't consider it at all strange, and even though it was the only miniature dwarf plicata from other-than-lilliput breeding, he wouldn't name it. It was much smaller than KNICK-KNACK, which is a little lilliput.

The most unusual occurrence among my own plic crosses came from LOVE AFFAIR X CRETICA which gave a batch of dreadful yellows and purples, with several plicatas, one fancy-plicata, one true fancy, and one recessive white. The fancies have been a frustrating problem to me for ten years, and I am just beginning to be able to ask some of those questions that must be discovered before any answers begin to come clear. What held me up all these years was a

failure of observation; although others may have observed the key phenomenon, not to my knowledge has anybody published this distinction either for the patterns or for the genes that cause them. The fact is that the plicata and the fancy are mutually exclusive patterns, each occurring exactly in those parts of the flower where the other leaves off; moreover, they are inherited either separately (plicata, fancy) or together (plicata-fancy). Sidney Mitchell himself, in his plicata article in *Bull. AIS* 106:20, July 1947, makes no clear distinction. LOVE AFFAIR, which must certainly carry the "fancy" as it is the only plicata which produced any for me from CRETICA, he calls simply "distinct pink plicata." Fancies he describes as "flowers of all-over stippled pattern on white, of which the apricot and yellow PRECIOUS is a good example . . ." which is certainly an ambiguous description of what I consider a "fancy," but is an even less exact description of what I term "plicata-fancy." Robert Schreiner's article in this same AIS Bulletin issue, which is a plicata special, comes closest to describing the distinctions between these occurrences. He says, "Here instead of margining or dotting the colors seem to be feathered or frosted over the entire flower. In some lights it does have the visual resemblance to the plicata pattern overlaid on a ground color of blue as in GYPSY BARON . . ." May I substitute "varieties" for "lights" in the preceding, Bob?

I am told that classes for the three resulting types do appear in some show schedules in California, where Mitchell worked on all of them, but apparently that's as far as the distinction went. In the Northeast, where I work, fancies and plic-fancies are almost never grown. Unfortunately for me, for many years my notes do not distinguish, so they are retroactively almost useless.

In her book *Iris Culture and Hybridizing for Everyone*, Wilma Vallette classed what I consider "plicata-fancy" as "fancy," and the fancy pattern itself, for which the Sass variety MOONLIT SEA has for many years been considered the type, Wilma has dubbed "weirdie," a term said to have been used by C. G. White, but this term has not been generally accepted. Actually, the "fancy" as typed by MOONLIT SEA, BERTHA GERSDORFF, PRETTY PANSY, CUBAN CARNIVAL, and FAIRY FANCY, has a brushed pattern which appears only in the centers of the falls and standards; in its minimal appearance, as apparently in BLUSHING BLONDE, it is a pale iris with a pale flush in its falls. The pattern leaves uncolored the veins which are colored in plicata, staining only the background between them, thus producing the brushwork effect. The type has conspicuously unmarked shoulders and noncolored stylearms (i.e., white or yellow). I use the stylearms as the determining factor when counting noses for pattern segregation which is difficult because, when the two patterns are inherited together, they run the gamut from plicata with very faint fancy brushing to fancy with very faint plicata hatching. Such faint hatching as distinct from the familiar coarse haft venation, in these as well as in the recessive whites, is apparently the case with MARIPOSA MIA. Fancy alone, without any plicata etching or dotting, is as rare in my crosses as the recessive white, which is presumably homozygous *pl*_a.

Segregations of crosses counted since this distinction became clear have compounded the puzzles. Some workers consider the plicata pattern to be caused by a distribution gene, and some consider the gene for fancy as distinct from the gene for plicata. One thinks of the mutant alleles of a gene locus as having an "either-or" (dominant-recessive) effect, and if this were invariably true the cross results from my garden could not be interpreted at all if *plf* were considered as an allele of *pl* and *pl*_a. Recently, however, Fred Megson brought to

my attention the possibility of complementary action between alleles of the same gene locus, which may in some cases be simple additives. If this is the case here, then it will be possible to make a fair stab at interpreting the cross results, more of which are, I hope, forthcoming. This project has been sadly slowed by germination troubles.

Since the introduction of DALE DENNIS some fine and interesting intermediate plicatas have been bred from crosses between the lilliput plicatas and tall bearded. A quick check of registrations of dwarf and intermediate plics for the years since the 1955 introduction of the first, DALE DENNIS, gave me something of a surprise—there are fewer of either than I had thought. My count was 17 lilliputs, and 21 intermediates. Most of them are blue to red-purple on white to pale yellow. In the standard dwarfs, PAT'S PAL, WEE REGGIE and SPECKLES are on yellow. Among the best of the recent SDB plicatas: SPECKLED SPRITE, which is redder; CIRCLETTE, which is more strongly marked; DOLL APRON, which has fine form; and FINE PRINT, lightly marked and nicely shaped.

Most of the intermediate plicatas are also on white or ivory grounds. BONUS, which is also a rebloomer, has more yellow in its background. SANDY CAPER is a NEW ADVENTURE type, and FANCY CAPER is a plicata-fancy combining stitching with the “wash.” JOLLY JOKER is on yellow.

Among the good ones classed W2V, or variations of V, ARCTIC FANCY is pure plicata with no fancy wash. KONTIKI is one of the best intermediates I grow, sturdy, reliable and floriferous. HAPPY MOOD has less crisp flowers, but has superb branching and long bloom. DOLL TYPE, SNOW CHERRIES, CLIQUE and PALE CLOUD are all delightful for plic fanciers.

A brief comment for those who are curious about the TB pink X CRETICA. This cross gave no tangerine pinks and no plicatas; there were 45 purples and 5 yellows, and my immediate reaction was to cross the yellows with NEW ADVENTURE to continue combining the tangerine pink with plicata. This resulted in progenies from three of the yellows, all of which included plicatas, some with tangerine-tipped beards, and one with pink sectors in its petals; a number of the yellows had these also. Gene Hunt, who has worked on pink plicatas for some years, used one of these with results which my own results confirmed, that it is quite possible and not too difficult to have plicata markings on a pink ground, but the question is, does anybody want them other than to prove that they ARE possible? Those with much plicata marking look harsh and unpleasing; a soft pink with brown embroidery is nicer, but the condemning word “dirty” still comes to mind. One of the PINK CAMEO/CRETICA X NEW ADVENTURE seedlings had a very strong red wash in the falls resembling the fancy in some of the Craig fancy-plics. In the next generation one of the seedlings had tangerine pink standards and beards, and a coarse red fancy wash in the falls. So, though it is perfectly possible to breed them, I don't believe many people would want to grow them except as weirdos in the dogpatch.

There are no pure fancies in either group, and anyway, the fancies don't get much chance. They are genetic rarities, and are not popular enough even in the TBs to attract crossing enough to improve and diversify them. My interest in them was sparked by the unusual coloring of the happenstance two from LOVE AFFAIR. One was an orchid pink, nearly baby-ribbon pink, and the other a true violet like wild violets. Their coloring has an opaque quality that gives them a different look, like the difference between tea with lemon and tea with milk. In all the years I've worked with them I have never been able to recover either color

combined with good form; but some of the present crop are pretty, in their odd way. Somebody's going to like them!

The relations among the plicata patterns are fascinating, but the truth about any scientific work is that the questions must be found before any discoveries can be made, and that it takes a lot of work to dig out even the first of the questions. That's just where we are in all chromosome levels of our work with the plicata complex.

A Heretic Looks at Plicata

A View from Diploid Level

Jean Witt

If you have always thought of plicata as a simple matter, determined by a single recessive gene, then come with me where the Table Iris breeders are struggling, down among the diploid bearded irises, and let me show you a different view! Confusing, controversial, fascinating, the problem of inheritance in diploid plicatas offers a real challenge to younger members who have the technical training to tackle it. My limited pokings and prying—inspired by the plicata issue of 1947—have uncovered far more problems than they answered. This paper will pose a series of questions to trace the early history of the plicata pattern, tell a little about my observations and experiences in breeding diploid plicatas, and throw out some new ideas as to the direction that future investigations might take.

1. If we begin by asking the question, What is plicata? we are forced to admit that we still don't know. We can say with a fair degree of certainty, however, a number of things about it:

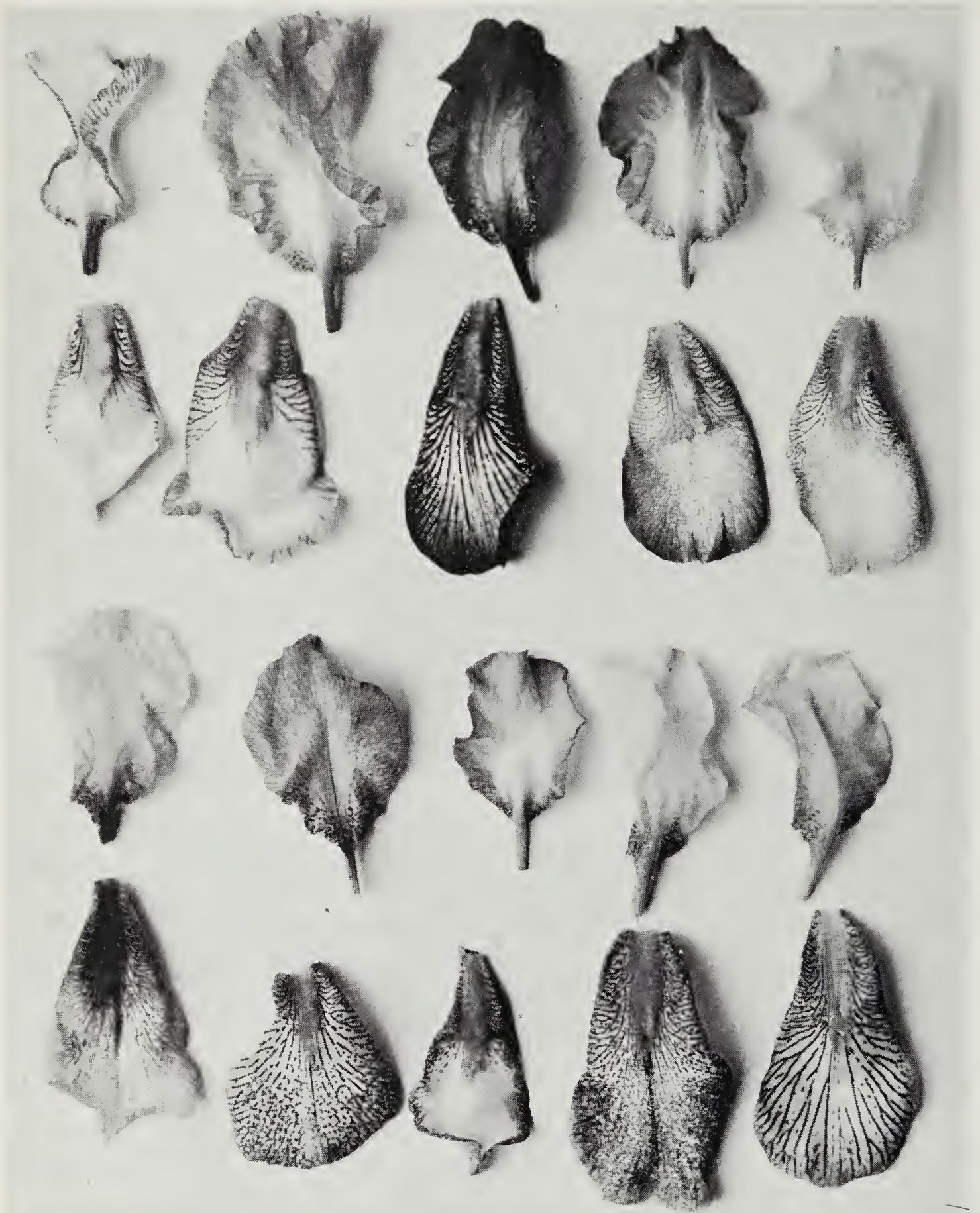
It is a pattern of *partial* coloration. Under a microscope the purple dots can be seen as small groups of colored cells in the otherwise white (or yellow) epidermis. They are not necessarily associated with stomata. Dots may occur on almost any part of the flower, including stylearm tips and hairs of the beard.

Though originally a blue-on-white pattern, plicatas now occur in either carotinoid or anthocyanin colors, and in endless combinations of the two. Ground colors vary from white through pale ivory, light to dark yellow, orange, and approaches to tangerine pink, variously accompanied or overlaid with all the nuances from light orchid pink, lavender, and light blue to dark red-purple, violet, and blue-black. Patterns include dotting, stitching, striping, feathering, or flushing, separately or in combination; and occasionally, broken or irregular patchwork. The amount of marking varies from much to little, and the anthocyanin may have one sort of distribution within the flower, while the plastid pigments have another. (See Photo No. 1)

Originally a diploid TB trait, plicata was transferred first to the tetraploid tall, then in recent years to IB, SDB, and MDB. Most of the patterns, but not all, occur at all levels. An exception is the "fancy", of which no diploid examples have yet been identified; DEMI DEUIL is the nearest approach.

2. Where did the plicata pattern originate? Again, we have no real answer. We do know that the pattern is a very old one. Sidney Mitchell tells of seeing it in a 16th century painting of irises in Madrid. Swert appears to have been the first person to name a plant of this color-pattern. His *I. swertii*, 1612, is still around, and current material is a very fair match for *Botanical Magazine* illustration t.

PHOTO NO. 1



Pattern Variation in Diploid Plicatas

Top Row: left to right, white ground plicatas:

1. Swertii, 2. Pink Jadu (S darker than F), 3. Demi Deuil, 4. Midwest (S and F about equal, 5. Sdlg. (S light, nearly solid, F darker and bordered)

Bottom Row: left to right, yellowground plicatas:

1. sdlg, S clear light yellow, F veined and dotted through center, margin clear
2. unidentified, but presumably some old named variety—inner surface of S dotted, F dotted and veined all over.
3. sdlg., S and F sanded on margin, clear through center

4. sdlg., S slightly sanded, F heavily all-over sanded
 5. sdlg., from No. 2 x Zingara; S lightly sanded, F heavily veined.
- No. 2 and No. 5 came from Sam Street

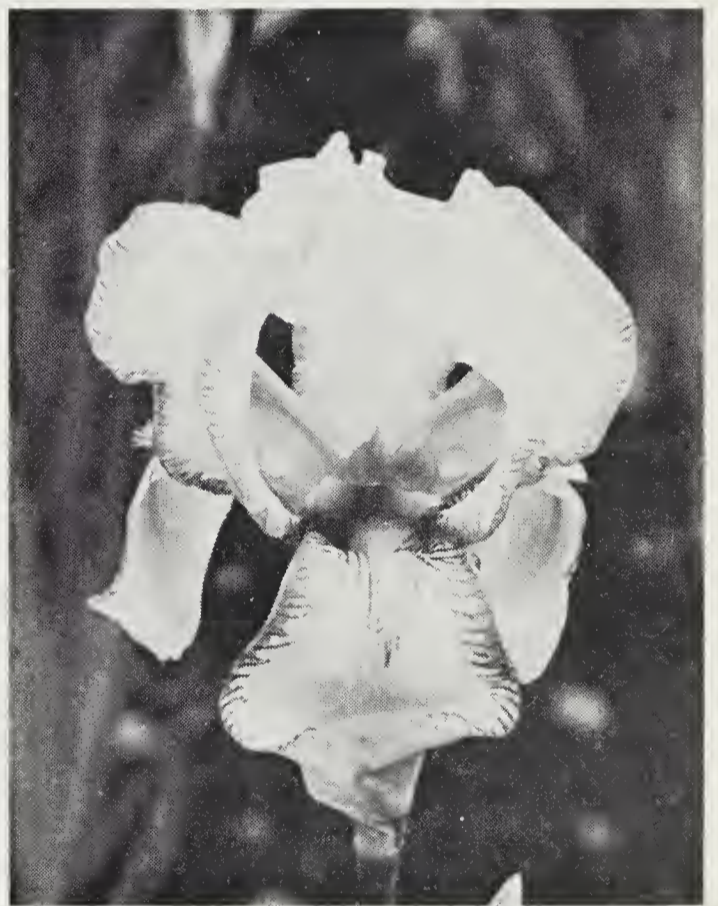
(Photo by Jean Witt)

870 of 1805 (as *I. aphylla*—Swertii is now considered just another clone of the garden diploid complex, having no connection with the true 48 chromosome *I. aphylla*). Lamarck's name, *I. plicata*, dates from 1789. No clonal material of it has come down to us as such, though it was among the flowers painted by the famous French artist Redoute in 1812. The French amateur breeder, de Bure—said to have had the largest collection of irises in 1848—raised seedlings from 1825 to 1830, and appears to have been the first to name a seedling plicata, BURIENSIS. This variety was still grown in the early days of AIS, but does not seem to be in any of the historical collections today. All of the foregoing were blue-on-white types; however, the 1939 AIS Check List also lists "plicata aurea" (Berg 1833) and "plicata variegata" (Berg 1935), whose names suggest that they might possibly have been yellow-ground types.

Plicata was first used as a color-group term by the English nursery firm of Barr and Sons in 1873. It does not appear in the early descriptions of Lemon varieties, which makes it a bit difficult to determine how many plicatas he introduced. Lemon's irises reached the United States as early as 1857-58, through the firm of William R. Prince & Co., of Flushing, Long Island. Prince's listings of that date include at least four that AIS later color-coded as plicatas—GYSELS (Gisele), PSYCHE, RAPHAEL, and ALICE. MME. CHEREAU is probably the best known Lemon plicata.

In the present century no plicatas have ever been found in the wild. W. R. Dykes, who considered that plicata was "obviously some form of *I. pallida*", searched unsuccessfully for it among the wild forms of Dalmatia. Dr. Randolph, more recently, had no better luck, though he did find a completely white-flowered plant in Yugoslavia. Whether anyone has ever looked for plicata types among the wild populations of *I. variegata* I do not know; white and yellow variants of that species are in current circulation.

3. A question that seems to have occurred to others besides myself is, Could the purple-dotted leaf bases, so common among the old diploids, have somehow been the original source of plicata dotting? It is not beyond the realm of possibility that at some time in the distant past, the ability to produce clusters of purple cells might have shifted from leaves to petals and given rise to *sanded* plicatas; however, that will not do much to explain the origin of the *stitched* MME. CHEREAU type, and nothing at all for my yellow-dotted ones from PLUIE d'OR. It seems safe to say that at present, purple leaf bases appear to be



MME. CHEREAU
(Lemon 1844)

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independent of flower color: in the SHERWIN-WRIGHT mutation from HONORABILE, anthocyanin has vanished from the blades of the falls, but the purple in the leaf bases remains unchanged.

4. Since no direct link to either parental species has been found, is there another possibility—rather than originating within *I. pallida* or within *I. variegata* crosses has been hampered by the very considerable sterility of the F₁, long-ago crossing of the two species—might it, in fact, be the product of hybridity? Such a suggestion is not particularly far fetched. We have a modern example in the PROGENITOR amoenas where a pattern appeared in hybrid progeny which was not known to be present in either parent. Attempts to reconstruct early bearded iris history by starting again with *I. pallida* x *I. variegata* crosses has been hampered by the very considerably sterility of the F₁, so that little progress has been made so far toward testing this theory.

5. Might we turn to some other section of the genus for clues? Hopefully, yes! There is evidence that F₂ progenies from CHRYSOFOR (*I. chrysographes* x *forrestii*) run strongly to spotted types not found in either parent. Perry described several of these about 1925, and those of us who are currently working with the 40 chromosome Siberian hybrids are meeting with additional examples in advanced generations—not only dots but stitched types. Sterility is no barrier among the 40 chromosome Siberians, and they are only a few generations from the wild instead of hundreds of years. With them, it should be much easier to test out the possibility of dotted and stitched patterns being the product of hybridity.

6. Is it too much to assume pattern similarities between such widely separated sections as Bearded and Siberian? I do not think so! Traditionally, the term *plicata* has been reserved for bearded irises, and I can remember when no one would have dared think otherwise. Yet in recent years, not only Siberians, such as BARBARA'S CHOICE, CAMOUFLAGE, and PUGET POLKA have been classified as *plicatas*, but also the Louisianas, POLKA DOT and FINDER'S KEEPERS; while McLelland, back in the 1920's mentioned a variety of *I. shreveii* patterned like MME. CHEREAU. The marginal dotting of *I. grant-duffii* shows very plainly in the plate facing page 33 in Cave's *The Iris*, and one of its synonyms translates quite literally, black dots. Dotting is the order of the day in such widely separated groups as Oncos, Reticulatas, and *I. dichotoma*. Patterns with broken dotting, similar to the TB DAFFY, are found among the cultivated Japanese irises, while *I. laevigata* has the distinctive variety ALBOPURPUREA which Dykes likened to inkspots on a blotter.

To carry the matter of pattern a bit further—borders, differing in color from a signal or spot area, are found in such diverse groups as Spurias, Pacific Coast Irises, Hexapogons, and Junos, while in *I. lactiflora* the clearly defined border on the outer surface of the falls appears dependent on differences in cell structure. Finally, the veining pattern of iris falls is basically the same whether one is looking at HOYDEN (Japanese), *I. missouriensis* (Longipetalae), VALLEY BANNER (Californicae), *I. reginae* (Bearded), GRANDIS (Siberian) or *I. korolkowii* (Hexapogon).

The conclusion I chose to draw from this is that *pattern* whether veins, signals, borders, or dots is constant throughout the genus *Iris*, far more basic than has here-to-for been realized, and conditioned by the very structure and development of the flower itself. It is also worth noting that diversity of pattern is greatest among those groups either natural or cultivated in which natural hybridization (Louisianas, Diploid Tall Bearded), rapid speciation (Arils, Pacific

Coast Irises, Pumilas) or extensive plant breeding (*I. laevigata*, Japanese, Dwarf and Tall Bearded) has occurred.

7. Is there any botanical evidence for allowing a flower to be divided so abruptly into border and spot areas? Apparently, yes.

Several years ago I came across an article which seems to me to offer intriguing clues to the problem of pattern—Haig Dermen, “Nature of Plant Sports” in *The American Horticultural Magazine* for July 1960, pp. 123-173. By studying chimera plants Dermen was able to show that leaves developed, not from a single tissue, but from three primary histogenic layers, each of which gave rise to specific portions of the leaf. Mutations resulting in the loss of chlorophyll from one layer or another produced a specific pattern of variegation in the leaf, often neatly bordered or centered white, or in other cases “mosaic” or splashed types. Since petals are merely specialized leaves, it seems proper to ask whether these same three layers may determine the development of tissues in flowers.

8. Could it be that the amount of tissue developed from each layer, and whether it comes out colored or white is the basis for pattern in iris flowers? Again, this seems to me to be an area worthy of further investigation. To date, the necessary studies have not been made on iris flowers. All we can venture at present is a guess. As an aid to visualizing the problem of pattern, I have devised what I call the “Area Concept”. The idea is quite simple: since we have beards of various colors inherited independent of petal colors; and since we have pumila spots in all sorts of colors and shapes—let’s just divide our flower into a few more parts or “areas” and specify that *each may inherit its color separately from any of the others*. In short, instead of color being inherited for the flower as a whole, let us allow it to be inherited piecemeal. By such a scheme a blue or yellow self will have color present in all its areas, and a white will have color absent from all areas. An amoena will have color present in the falls but absent from the standards. A typical plicata will have markings in the border but absent from the spot.

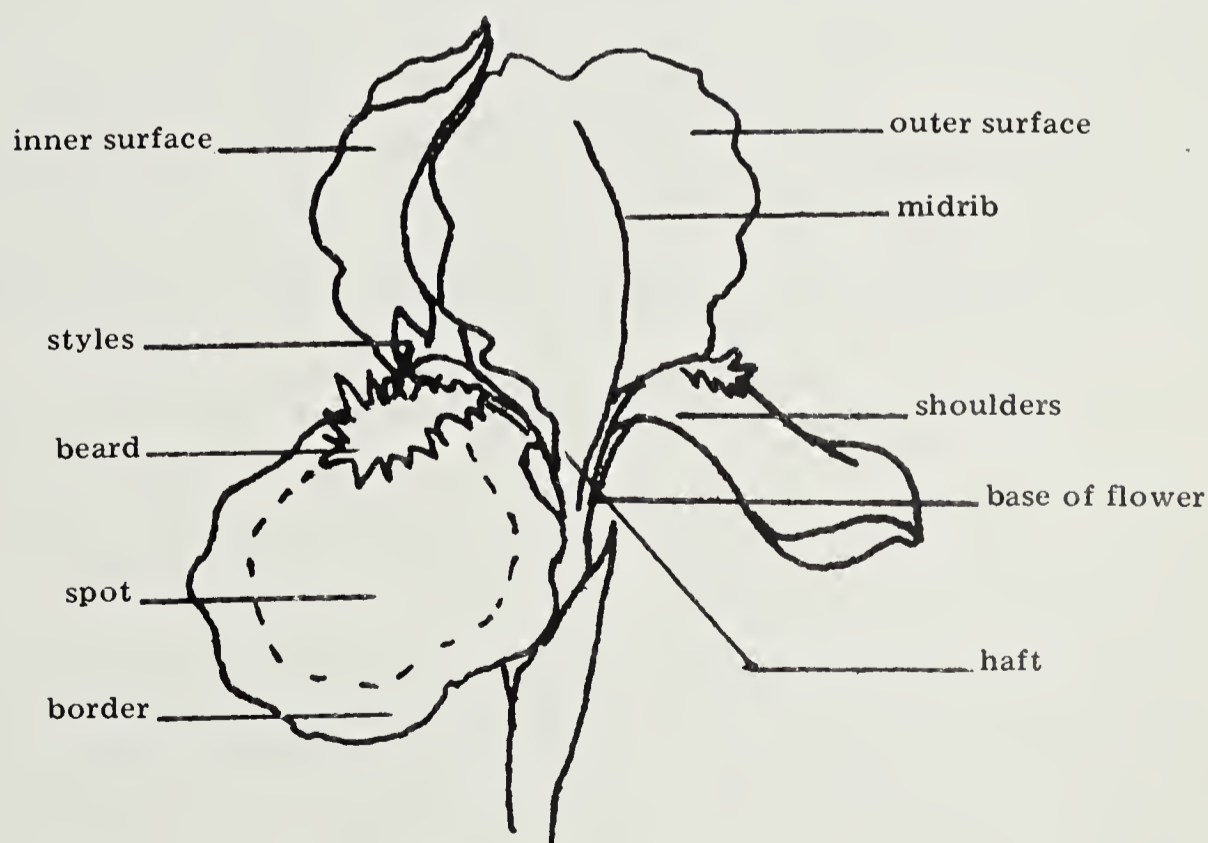


Diagram of Area Concept

The area concept has several very definite advantages. First of all, it offers a way of explaining the multitude of plicata variations. It can also be used to explain the possible relationship of ALADDIN'S WISH, PRETTY PANSY, etc., to ordinary plicatas—in the latter the color is present in veins and dots, and concentrated on hafts and stylearms; in the former, color is absent from hafts and veins and stylearms. These two contrasting phases are clearly visible in Japanese iris varieties, and I hope some of our people who are working with that section of the genus will be able to support or refute this: are white veins always coupled with white stylearms and blue veins always linked with blue stylearms?

The area concept is particularly useful in explaining certain seedling plicatas from PLUIE d'OR which are dotted in the spot area but not on the borders. Finally, it makes it possible to explain how a plain yellow self like PLUIE d'OR, supposedly w-white (with respect to anthocyanin) can be selfed to produce flowers with the full amount of plicata dots. One need only assume that the dark dotting which is present on the outside base of the petals where they join the ovary can be shifted to appear in other locations. Such an explanation may be closer to the real answer than we know. This year, in a Table Iris progeny that included several little dotted plicatas, there appeared a plant which had a plicata seed pod! The mature pod was completely covered with small purple dots—not the rather elongated purple markings of leaf bases (which really seem too far away) but exactly the same little round purple dots that had been present on the petals of some of its sibs. The flower which preceded the pod had been a rather grainy blue—a plicata carrier, perhaps?

To view our flowers as divisible into x number of separately inherited units rather than as a whole is neither far out nor particularly original. Lynn Markham has already spelled it out for form in the October 1969 AIS Bulletin in her article, "Iris Tops". In flowering tobacco genes of this sort have actually been described. One gene is known to distribute anthocyanin in the epidermis of the inner side of the corolla; another gene distributes it in the parenchyma (inner tissues); a third is concerned with the outer side of the corolla, and still another with the outside of the tube. We know that inner and outer surfaces of iris falls are often a different color. The area concept gives us a means of explaining why.

9. Could we learn something further about the origin of plicata pattern by studying what is known about dotted patterns in other plants? So far as I am aware no one has pursued this particular subject with iris in mind. Dotted patterns have appeared in many garden flowers that originally were self-colored—Gloxinias, Violets, and *Impatiens roylei* are a few that come to mind. Broken dottings and/or splashings are found in such genera as *Canna*, *Zinnia*, *Verbena*, *Dianthus*, *Dahlia*, and *Delphinium*. Tulips, *Tigridia*, *Amaryllis*, *Gladiolus* and certain hybrid lilies show distinctive patterns with color present or absent in various parts of the flower. Botanists have studied some of these in considerable detail—further clues as to the basic causes of plicata dotting in iris may well await us in the literature.

10. How many types of plicatas are there? Visually, we would all agree, there are a great many. Genetically, we are uncertain. The guide lines for classification of plicatas as laid down in the July 1947 plicata issue are fairly applicable at either diploid or tetraploid level. At diploid level, plicatas divide quite sharply into two major groups:

I. Reverse bitones, having more color in the S than in the F—the MME. CHEREAU- PARISIANA type.

II. Bitones, having more and darker color in the F than in the S—the KING KARL-MARY GARDEN type.

These two groups can be further subdivided as follows: (Only the purple markings are considered here; yellow ground color is ignored.)

1-A, stitched edge: MME. CHEREAU, 2n; ROSY VEIL, 4n

1-B, dotted edge: PARISIANA, 2n; many 4n varieties

1-C, dotted with stripes: MOCKINGBIRD, 2n; SIEGFRIED, 4n

1-D, sub-marginal dotting, in spot area: seedlings from PLUIE d'OR; 4n?

2-A, neglecta-plics: MARY GARDEN, KING KARL, 2n; MAGIC CARPET, SIVA SIVA, 4n

2-B, amoena-plics (or with Y, var-plics): DAINTY DAMSEL, 2n;? MEXICALI, 4n?

3- Dotted all-overs: STIPPLES, 2n;? GAY TRACERY, 4n?

4- Erratics-KALEIDOSCOPE, 2n; DAFFY, 4n

5- Fancies: no known 2n examples; MOONLIT SEA, ALADDIN'S WISH, PRETTY PANSY, 4n

6- Plic-fancies: combination of No. 5 with one of the above, usually 1-B or 1-C: ORLOFF, SAFARI, 4n; also IB and SDB examples; DEMI DEUIL nearest to this in 2n;

Distinctions between No. 5 and No. 6 are not entirely clear in the 1947 issue, nor in some catalogs, but we feel it is desirable to separate them. The question of lavender ground color remains unanswered, unless No. 6 could be so construed. AZORA, mentioned as such in the AIS Bulletin 13 classification has never come to light. RHAGES comes close—it has a definite lavender tinting under its purple dots, but whether this qualifies as ground color or is merely minute and paler dotting is hard to say.



Example of stitched plicata: MME. Chereau (Lemon 1844)

(Photo by Joe Witt)



Amoena-plic with sib of more usual type: (Pluie d'Or x Golden Flare)

(Photo by Jean Witt)

In an effort to learn something definite about the distribution of dotting, I examined diploid flowers of various colors during the 1970 season—species, seedlings, and named clones. Since the dotting on the outside base of the flower where the petals join the ovary is suspect as a possible source of plicata dotting, I looked first at that. *I. pallida* (seed collected Romania) varies from no dots on the outside to a trace. *I. variegata* (seed collected Hungary) has no basal dotting; neither does *I. variegata* 'Randolph'; however, one of the blended variegata clones which came to me from Walter Welch is basal-dotted. HUSSARD (a *pallida* blue) has a trace of dots. LOPPIO (a collected *I. cengialti*) has a lot of basal dotting. The only conclusion I could draw was that in these various

ancestral species, some flowers are basal dotted and some are not—no evidence restricting dots to any one species.

PHOTO 4

PHOTO 5

PHOTO 6



Var-plic seedling
(Unidentified bitone
plic x Sherwin-Wright)
(Photos by Jean Wittt)

Examples of dotted plicatas: top, Widget; lower left, Outward Bound; right a neglecta-plic seedling. The two lower flowers have in common an unidentified bitone plic, differing in pattern from both; in Outward Bound, the second parent is the small yellow self, Sherwin-Wright; in the neglecta-plic, the second parent is Pluie d'Or.

Striped plicata, Azure Tracery. This tetraploid example is unusual in that it has Wabash and Amigo as grandparents. Lower flower: Mme. Chereau.

Next I examined style arms, since deeply colored style arms are often mentioned as a typical plicata characteristic. *I. pallida* ex Romania has blue styles; *I. reginae* has blue styles; *I. variegata* 'Randolph' and *I. variegata* ex Hungary have yellow styles, but some of the blended clones from Welch have blended styles. In amoenas, MRS. ANDRIST, MILDRED PRESBY, two seedlings, and the badly blotched VICTORINE, all have white styles. Several old named variegatas all have yellow styles—but the neglectas or blue and purple bitones all have blue styles (diploid *I. kashmiriana*, BLACK PRINCE, ARCHEVEQUE, and several seedlings). Plicatas followed much the same pattern: FAIRY, MME. CHEREAU, TRUE DELIGHT, WIDGET, and numerous Widget-type seedlings all have blue or orchid style arms. (see photo No. 5) In

Rhages, the styles are barely tinted orchid; in DEMI DEUIL, they have anthocyanin tips and blended backs. The bitone plics—EXTEMPORE, KING KARL, VEILED LADY, QUAIL, and an assortment of diploid seedlings have light colored styles, essentially yellow with only a trace of anthocyanin, mostly on the tips. In “Changeling” the styles are darker yellow than the rest of the flower—full yellow contrasting with the pale yellow petals. DAWN, GOLD STREAM, and a number of other diploid light yellow selfs have light yellow styles. In the MTB JOSEPH’S COAT, the styles are a patchwork of yellow and white to match the petals. In the yellow and red var-plic (shown in photo No. 4) the styles are yellow; in its sibs the neglecta plic and the very dark all-over, they are purple.

All this would seem to link the tall MME. CHEREAU-PARISIANA types with blue styles to *I. pallida*—thus supporting the view expressed by Dykes—while the bitones, neglectas and neglecta-plics occupy the sort of in-between position one might expect of a combination between the two types of species coloration.

11. To what extent do these different types as outlined above appear in a single progeny? In my experience with diploids, sometimes they do, sometimes they don’t. WIDGET X the wine bitone ‘Ruby Roundfall’ (a plic carrier) gave only more Widgets. Stitch-bordered MME. CHEREAU X an all-over-dotted unknown gave a progeny of dot-bordered seedlings. PLUIE d’OR and SHERWIN-WRIGHT (yellow selfs), on the other hand, when crossed with that same unknown, split wide open into many different types of plicatas and bitones. A progeny from the MTB DANCING GOLD and a diploid Siva Siva-type which bloomed in 1970 ran the gamut from one parent to the other—from a yellow self with a mere trace of basal dots, through a complete gradation to fully dotted bitone plicatas. On the basis of my crosses to date, I suspect that crossing plicatas with blue selfs or bitones may only perpetuate the existing pattern, whereas crossing with yellows causes the pattern to diversify. More crosses between types will be needed before we will have anything like proof for this point.

12. How can the great variety of patterns within a single cross be explained? Attributing variations in pattern to dosage, as has sometimes been suggested in attempting to explain the array of tetraploid plicata types, is to completely underestimate the scope of the problem. The same range of patterns is found at diploid level—which lets dosage out altogether as an adequate answer. A better explanation would be to postulate that one gene, *pl*, determines that a flower will be a plicata, while many other genes (modifiers) control the depth of color, and its position within the flower.

13. Do any of these diverse classes cross or self to produce self-colored flowers? This question was left unanswered in *Garden Irises* for lack of evidence, and we are no better able to answer it today. We tend to assume it should be answered “No”, but there are just enough alleged instances to arouse suspicion that there may exist certain unlike plicata types which would cross to produce selfs. A. J. Bliss at one time thought two genetically different plicatas could be crossed to give solid color—he implies that he had selfs from MME. CHEREAU X JEANNE d’ARC. There is also a report of a self from MME. CHEREAU X KING KARL. I finally managed to repeat this one this past season, and we will see . . . many more crosses among the entire spectrum of old plicatas will be needed before this point can be settled.

14. Are there any all-whites (pl-a) at diploid level? Among the named diploid clones none has yet been definitely identified. The MTB DANCING GOLD is suspect, coming as it does from two plicata parents; other cases have been reported. Among those tested so far, simple recessive whites (w) appear to be the most common—though LA NEIGE and DAYSTAR may be more akin to PLUIE d'OR since they produce some splashed types (erratics). However, the wild white *I. pallida* collected in Yugoslavia by Dr. Randolph, on the basis of seedlings raised by Megson and Tearington, does appear to be of the pl-a type. In crosses with plicatas it has given 100% plicata offspring, and in crosses with pl-a whites it has given only whites. (*Medianite* 10: p. 38, April 1969; *Medianite* 11: p. 18, Jan. 1970)

15. Are there any plicatas in which the markings (not the ground color) are yellow? When R. S. Sturtevant in the plicata issue of 1947 said, "The markings we associate with the term plicata are never yellow", he echoed a statement from an earlier plicata classification (AIS Bull. 13: 192, page 27) "It is interesting to note that though we get yellow tinted grounds, yellow markings are apparently non-existent." Of 28 varieties listed then under "blended" plicatas only two, MME. CHOBOUT and MME. LOUESSE, are marked as having yellow predominating, and "predominating" is hardly the word we would use today to describe either. MME. CHOBOUT is a sort of diploid counterpart of PATRICE, and MME. LOUESSE would be dismissed as brown. "Rather a creamy ground" is the strongest statement they make!

Today, I would answer the question of yellow markings, "Yes!" and so, I'm sure, would most of TB breeders. I have raised plicata seedlings both with yellow dots and with edges of yellow stitching, and others with yellow dots and purple dots intermingled. All of my examples are related to the yellow PLUIE d'OR. Here is the original description of one from PLUIE d'OR selfed: "S white, yellow at base; styles yellow; F yellow at haft, blade white, edged with veins of yellow a la MME. CHEREAU. The second flower to open on this plant had purple plicata dots in the center of the falls but not in the yellow edges, and a few at the base of the S, on the inner surface. S and F mottled on haft on outside." This was given the garden name "Changeling". After being almost wiped out by a couple of freezes, it finally bloomed again this year, and I made a point of examining its petals under the microscope. There are indeed yellow dots as well as purple ones. The yellow dots appeared as groups of cells in which many yellow plastids—looking somewhat like undissolved lemon jello—were clearly visible. The number of plastids in a given cell was greatest in the center of the dot, grading outward to few or none in the cells between dots. It was my impression that there were more and smaller cells in each yellow dot than in the corresponding purple dots. The purple color—which appeared as a wash throughout the cell—did not appear to diminish in strength or grade outward, but ceased abruptly: a cell was either purple or it was white, never orchid. This year, as before, the amount of anthocyanin dotting increased from almost none on the first flower to a rather considerable amount on the final flower; rose dotting through the spot area of the falls, with a trace of smeary dotting on the standards. Later in the season, "Changeling No. 2" (F₂ from Pluie d'OR selfed) showed up with an even better example of the pattern on pale yellow ground; it also varied from flower to flower, and the final bloom had rose-dotted feathering up the midrib of the S and a bright rose-dotted flush through the "spot" area of the falls.

"Kitchen chromatography" shows clearly that the yellow of PLUIE d'OR is

not the flavone yellow (and thus related to anthocyanin) but a group of at least three carotinoid pigments, carried in the plastids which are clearly visible under the microscope. By no stretch of the imagination can water soluble anthocyanin, loose in the cell sap, change into a series of carotinoids in plastids. Any rearranging that occurs must be achieved by some other means.

16. What effect does the appearance of plicatas with yellow markings have on the present theory of *pl*, *plicata*, recessive to *Pl*, self color? Actually, very little. It suggests merely that the definition of self color should be expanded to include yellow as well as blue. Presence of dots and/or stitching in yellow as well as blue can be adequately explained if we revise our present definition to say simply that *pl* is a gene—not for pigment manufacture, but for pigment distribution, recessive to *Pl*, self color—operating independently of, but in conjunction with *either* anthocyanin (blue, orchid, purple) or carotinoid (yellow, orange, tangerine) pigments.

17. How soon are we going to have real pink plicatas? This one I will leave for those who deal with tetraploid plics to answer. Viewing *pl* as a gene for pigment distribution rather than for pigment manufacture makes it somewhat easier to visualize how a t-pink *plicata* might come about. At diploid level, the chief stumbling block seems to be that in all flowers where the t-pink pigment, lycopin, has been identified, it is always accompanied by two or three yellows which exert a marking effect. If orange ground plicatas are a step in the right direction, we have them among the MTB; however, we don't yet know whether this particular orange coloration is a separate orange pigment or t plus Y. If our theory of *pl* as a distribution gene is right, ultimately we should have two kinds of pink plicatas, purple dots on pink ground, and pink dotting or stitching on white ground . . .

18. End-of-the-line diploids such as PLUIE d'OR and SYLVIA seem to produce plenty of bright yellow plicatas—Why did earlier breeders of diploids find only very pale ones? The only answer I can suggest for this is that, since they were trying to improve size, they selected for pallida traits at the expense of variegata traits, which made it difficult to recover full yellows. In Table Iris breeding we have reversed the process—it may be that in selecting for small size and slender stems we have been, so to speak, gathering up the very traits (including genes for yellow) that earlier breeders eliminated.

19. Is there something unusual about PLUIE d'OR and SYLVIA that bears on the *plicata* problem? Decidedly! With respect to blue, they are supposed to be recessive whites (*w*); yet they can be selfed to give purple dotted plicatas, and a *w*-white should self to give only more like itself. Neither do they appear to be dominant white, since crosses with *amoena*s such as MILDRED PRESBY give 100% flowers with purple falls. Visually, they are identical with the yellow MTB, SHERWIN-WRIGHT. SHERWIN-WRIGHT is now known to be one color phase of the Honorable complex, which began with the unstable Lemon variegata, HONORABLE, and includes the somewhat lighter colored variegata SAN SOUCI; the erratic variegata JOSEPH'S COAT (yellow pigment in splashes); the var-plic KALEIDOSCOPE (*plicata* markings in splashes); and a number of unnamed "sports" toward *plicata* in one direction and *amoena* in the other. The cause of such extreme variability is not known. Suggestions range all the way from mutable genes, to chimeras, virus, and somatic crossing over. This type of behavior is quite common in the diploid TB and MTB; it seems to be somewhat less common among modern tetraploids, possibly because it has been bred out.

Some splashed or erratic flowers have turned up in every progeny that I have

raised from PLUIE d'OR, whether crossed or selfed. I am therefore guessing that it may harbor the same sort of hidden genes for extreme variability that we see in action in SHERWIN-WRIGHT and the Honorable complex.

20. This may be great for MTB breeders, but does it have any application toward iris breeding in general? Yes, I think it may. If we take the parentage of ALADDIN'S WISH (Buechley Giant x Pluie d'Or) at face value (there are those who have reservations about it), then PLUIE d'OR has already produced one new tetraploid pattern. It seems also to have produced one at diploid level—the one with the dotting in the “spot” area instead of the border, mentioned above. I'm not the only one who has had this sort of seedling from PLUIE d'OR—Fred Megson raised an even better example, on white ground, with a “sub-marginal” dotted blue border to the falls and a “feathering” or flame of color running up the midrib of the otherwise white (unbordered) standards. Coupled with the cases of amoena-plics, var-plics, yellow borders and dottings that these old yellows have produced, it seems worth asking whether we might use them as tools to find still other new patterns—a yellow-dotted amoena, for instance. PLUIE d'OR crosses easily with tetraploids—I suggest that crossing it with modern tetraploid plicatas of good form might lead to unprecedented breaks in color for that class. At the very least, diploid yellows are worthy of further investigation so that their peculiar unstable relationship to plicatas can be better understood.



SOUTHWEST OKLAHOMA IRIS SOCIETY MEETING—Mrs. James True and Mrs. R. L. Gilbert, Senior Judges; Mrs. Fred Mallon, President of Southwest Oklahoma Iris Society; and Mr. Perry Parrish, Region 22 RVP and Guest Speaker. (Picture courtesy Lawton Morning Press.)

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Tuesday, May 11 — Registration. Board of Directors meeting, RVP and Sectional Representative meetings. Informal evening gathering for early arrivals.

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Thursday, May 13 — Bus tours Harris, Paulsen and Torrey Gardens in Wichita, Ohl Garden in Mulvane, and Bartlett Aboretum, Belle Plaine. Lunch at Belle Plaine featuring a Pit Barbecue. Judges training evening program.

Friday, May 14 — Bus tours Fry, Jendel, Jones, Ramsey, and Wall Gardens, Wichita. Lunch at Cowtown. Evening entertainment program, April Society and Regional Test Garden meetings.

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Personal Glimpses of Your 1971 Convention Hosts and Gardens

Mabel Clare Jendel

Our hard working convention chairman, George Torrey, is chief pharmacist in a doctors' pharmacy, so he really has his work cut out for him. But his devoted wife Roberta, who is an ardent irisarian, keeps the ball rolling for him. She has laid aside her duties as a Certified Dental Assistant to help George in his convention work. Their beautiful garden will be on tour for the convention.

Roberta is also co-chairman with W. F. (Bill) Brown of the Guest Iris Committee. You would think Bill had enough to do with this job, but he goes out and helps all the tour garden owners, including the city park, to plant, fertilize and water the guest gardens. Bill is a retired sales manager for the Dowell Division of the Dow Chemical Company.

It would seem that Carol Ramsey had enough to do, also, with being Convention General Secretary and Program Chairman, but she and her husband, Richard, a research engineer, have a large landscaped garden, including a Median Iris Society Display Garden, for the convention. Carol is also First Vice President of the Median Iris Society.

Holding the purse strings are the convention treasurer, Ralph Stuart, a history teacher and our most eligible bachelor, and Eloise Woodman, the registration chairman. Eloise's wizardry as a fund raiser, with Ralph's able assistance, got the convention planning off to a good start.

Jim Fry, who is an engineering supervisor at Boeing, and his wife Lucy, who is an RN, have a lovely tour garden for the convention. The irises are attractively displayed and easy to view, and they have an attractive rock garden. Jim and Lucy say they knew they were "hooked" when they started to ask the names of the pretty ones.

Another attractive garden will be hosted by Eugene Harris, who works for Uncle Sam in the post office, and his wife Marjorie, who is with the Kansas Crippled Children Commission. They are both working irisarians, enjoy taking pictures and attending conventions.

An outstanding garden, with its native historic rocks and artifacts, will be hosted by Orie Jones, who is a teacher at North High School. His wife, Ivy, manages to sandwich her beauty shop customers in with all her garden work. This garden is delightful with its interesting attractions.

John Ohl, a life time member of the American Iris Society, and a protege of Hans and Jake Sass, and a hybridizer of record, is a retiree of Boeing, and his garden of several acres will have thousands of irises of his own originations and other noted hybridizers.

A smaller, but beautiful garden, will be hosted by Fred Paulsen, a retiree of the Rock Island Railway and chairman of the Garden Committee. He will be assisted by his wife, Ada, a former speech teacher and a gardener in her own right. If anyone can grow huge and gorgeous irises, it is Fred and Ada.

Bill and Helen Reynolds own the El Dorado Iris Gardens and Helen is well known for her beautiful hybridizations. Bill belongs to the oil fraternity, but that does not interfere with his iris enthusiasm. In addition to the tour garden, they will have their own huge iris gardens on display, with well-known introductions of their own and others.

The First Vice President of our American Iris Society, Dr. Hugo Wall, and his wife Dora are both hybridizers of renown. Dr. Wall is Director of the Center of Urban Studies of Wichita State University, and also Chairman of Health Planning Council for South Central Kansas. Their gardens are always especially interesting with all late introductions.

That leaves Charles' and my garden — the Jendels. We hope and pray for good weather so you will be able to see a garden of irises that has had plenty of baby sitting and a lot of humoring. Charles is sure that the iris has human blood — and he may be right — his own! (*Editor's note: Charles is a retired machinist and Mabel Clare is a pharmacist.*)

One of the outstanding attractions of the convention will be the Bartlett Arboretum at Belle Plaine, Kansas, owned and operated by Mr. and Mrs. Glenn Bartlett. This garden is nationally known for its fantastic collection of stately and rare trees, shrubs and flowers of all kinds. Its visitors come from all over the world and it will be a delightful experience for our convention visitors. Workers in the iris convention garden at this arboretum are Roberta Torrey, Velma Carlson, Eloise Woodman, and Fred and Ada Paulsen. Velma Carlson has the Region 18 hybridizers' display garden there.

Our historic Cow Town will have all the "Memoirs of Yesteryear" depicting Wichita's early days. The historical irises there date back to 1500. W. F. Brown, who is chairman of the historical garden, has done a lot of research work and the convention's guests will have an exciting adventure in the old, old city. The workers in this garden, besides Bill, are Velma Carlson, Roberta Torrey, and A. V. and Mabel Clanton.



TWENTY-SECOND ANNIVERSARY PICNIC of WICHITA IRIS CLUB. Charter members, left to right: Hazel Hinderliter, John Ohl, Wayne Hinderliter, Dora Wall, Dr. Hugo Wall, Fern Stater, Ivy Jones. (*Picture courtesy Wichita Eagle and Beacon.*)

The City of Wichita has assigned to the Wichita Area Iris Club one of their beautiful parks between two lakes for their convention. John G. Firsching, Superintendent of Landscaping and Forestry for the city, has supervised the complementary work for the gardens. Special iris beds have been assigned to various members of the Iris Club who will host the different formal arrangements. Bill Brown spent hours and hours of arduous labor getting the ground work started, and now Tom Friedline has inherited the job of supervising the auxiliary workers and hosts. Tom is a plastics pattern maker with Cessna Aircraft. The hosts of the different gardens in Watson Park are Wey Kenney and Jack Paulsen, Dwight and Erma Hobbs, Tom Friedline and Dale Maugans, Rosetta Shumard, Burdella and Don Rhodes, Elmis and Chuck Standard, Ruby and Guy Swink, Ted Breth, Gladys Patterson and Ruth Gray. These hosts have been assisted by many willing workers of the Club.

The American Iris Society Youth Program has many devotees in the Wichita Area. Those who have put their shoulders to the wheel with an avid interest in the convention work are John and Martha Ramsey, Vicky Rhodes, JoAnne, Patty, David and Terry Fry, Charles Snell, Kelly Crum, Robert and Richard Maugans, and Debby Breth. The enthusiasm of these youngsters' projects a wonderful future in the iris world. We who worry about iris getting in a rut — no pun intended — may feel assured that the flower is in good hands and the next generation of irises and irisarians will move forward into something wonderful and undreamed of at this time.

Now that you have met and had a handshake with the 1971 convention hosts, we will move along to other interesting facts about the city you will visit.

When you come to Wichita for the 1971 American Iris Society Convention, you will be at the crossroads of America. In the turbulent 1860's, when the early wagon trains were fighting their way across the great Central Plains of the continent along what later became known as the Chisholm Trail, a small group of settlers established a village at the fork of the Arkansas and Little Arkansas Rivers, the site of the Wichita Indian Village. Wichita means Scattered Lodges. This was the beginning of the colorful history of Wichita — from the Pioneer village to Cowtown, from the Trading Post to Industrial Metropolis, and this is the site of the 1961 American Iris Society Convention. The largest city in Kansas has come a long way from that village of the 1860's. The present population nears a half-million residents in a 190 square mile area.

A diverse economy with aircraft manufacturing, agriculture and petroleum as its cornerstones provides the basis for this hustling trade and cultural center. Wichita is a well-balanced and good city, offering a true four-season climate with good clean air and unpolluted water — a good place to work and live.

The spirit of "Matty" Laird and "Buck" Weaver helped create a most impressive aircraft industry which today includes these big names — Beech, Boeing, Cessna and Lear.

The cultural arts are also important parts of this city's many advantages. The new domed Century II serves as the hub for convention and cultural activities for the area. Located in downtown Wichita and providing 11 acres of the nation's finest convention space, the \$15 million showcase is the midwest's newest and most flexible facility. The people of Wichita are proud of their Century II, their tree lined boulevards, a \$3 million zoo, and their Art Museums. Convention visitors will find a hardworking local organization and the warm hand of hospitality offered to them by the entire community.



Charles and Mabel Clare Jendel
(Picture courtesy Wichita Eagle-Beacon)

MOUNT CLARE IRIS GARDENS

3036 N. Narragansett Ave.

Chicago, Illinois 60634

Since 1941 Home of the Aril Iris of the Great Lakes Region

RADIANT SMILE '68. Arilbred. 24". Sdlg. 66-2. EM. This is a very striking iris with the standards a beautiful sparkling white, strong chartreuse rib and yellow crest. Falls creamy buff. Brown beard and dark brown signal. An arilbred with real class and personality. HC '68. HM '70. Dardanus X Kalifa Kashan\$5.00

BIG BLACK BUMBLEBEE. (1966). Arilbred. 24". E-M. Sdlg. 65-4. Standards deep amethyst-pink, veined darker mulberry; falls similar but darker; beard bronze. Black signal. THESUS X Wo 1 sdlg. (C. White). It is extremely hardy and easy to grow and increases rapidly. HM 1967. White Award 1970\$5.00

DREAM STEP. (1966). Regeliocyclus. 18". E-M. Sdlg. 65-6. S. Olive-cream, chartreuse-green at midribs; F same except with chartreuse lines; beard brown. KOROLKOWII (Brown and green) X I. GATESII....\$7.50

PERSONALITY QUEEN. (1966). Arilbred. 24". E-M. Sdlg. 65-15. S pink to lavender; F same; dark brown signal; beard brown. THESEUS X (Imam Salah x Imam Ahmid) X KALIFA GULNARE.....\$3.00

FLURRY OF NEPAL. (1964). Arilbred. 30". Color bronze gold. Beard darker. Small black signal. Very vigorous plant. Easy grower. About 30" tall. Three-way branching. Seedling #62-1-1. H.M. 1965. (Snow Flurry x Asoka of Nepal) X ASOKA OF NEPAL.....\$3.00

COLLECTOR'S PRIDE. (1963). Regeliabred. From Snow Flurry and Hoogiana. Pure clean white except some orange stripes on upper falls. Beard yellow. Has the Hoogiana form.....\$2.50

1971 INTRODUCTIONS

TEMPLE DANCER. Arilbred dwarf. 6-8". Sdlg. D-68-1. E. Unusually well-formed bloom. There is a peculiar harmony between the firmly held standards and flared, jaunty falls. The whole flower is unusually well finished. Color is a deep, lovely violet, very smoothly applied. Light violet beard with bronzed tip. Best seedling at the dwarf show at Hinsdale, Ill., 1970. Deep Lavender X Cythe\$7.50

TWILIGHT DANCER. Arilbred. 20". ML. Sdlg. 69-2. Two buds in terminal. See 69-2, back cover Golden Anniv. Bulletin.

Very large onco-appearing flower on a sturdy stem. Standards strong, clear white with faint blue cast and a pronounced rib which is faintly green toward the base.

Falls are wide and curved; a greenish base strongly sanded and faintly veined dark maroon brown. Sanding is thickest toward the top of the fall and less dense below.

A thick, narrow, upright beard of bright tan ends in the top of a large brown oval signal. Large styles just lighter than the base color of the falls protrude, showing strong streaks of turquoise.

The flowers are very lasting, but the second bud waits to open until the first is well past. Two stalks gave over 3 weeks of nearly continuous bloom.

((Jallah Effendi x Kalifa Baltis) x Tatai Pasha) X Persian

Embroidery\$25.00

SUMMER SET. Arilbred. 18". EM. Sdlg. 66-5.

Large, very round flower on strong stem. Well grown this looks like an oncocyclis having very full, round standards with strong curved ribs that meet at the top and very wide, completely recurved falls.

The basic color is bronze but the standards are completely suffused with pink which gives a light apricot color. The falls have more orange-pink infusion making them a deep, rich apricot.

Signal area is very deep red, and the brown beard is quite short. Large styles are the same color as the falls, prominent, but not protruding.

Two buds in the terminal. Flowers long lasting. Strong growing plant. It gives a few seeds per flower by halfbreds and is easier to get pods on than most 3/4's of this type. (Imam Salah x Imaret) X Persian Brass.....\$25.00

ONE MORE KISS. Arilbred. 20". M. Sdlg. 66-1.

Very large, and looks like an incocyclis type flower. Standards pale lavender and falls ochre. Very dark signal. Large dark brown beard. Pictured in color, upper left of back page of AIS January 1970 Golden Anniversary issue. This plant is extremely pod fertile to almost any aril breeding. Kalifa Hirfa X Persian Embroidery.....\$35.00

Below we are listing a number of pure arils, BUT order must be in before August 15 to assure delivery.

ANCILLA	\$3.00	H. PURPUREA	\$2.00	STOLONIFERA	4.00
ARTEMIS	2.00	IBERICA	7.00	STOLONIFERA-	
BARCAROLE	7.00	KOROLKOWII	7.00	LEICHTLINII	\$4.00
CHIONE	2.00	KOROLKOWII-		STOL. ZWANENBURG-	
CLOTHO	5.00	VIOLACEA	2.00	BEAUTY	4.00
CYTHE	3.00	LILLI-HOOG	1.50	STOL. VAGA-	
CAMILLA	5.00	LORTETTII	7.00	COMPACTA	6.00
DARDANUS	2.00	LUCIA	5.00	SUSIANA	3.00
ELVIRA	2.00	MERCURIUS	3.00	THESEUS	3.00
EUNICE	2.50	SARI	7.00	THOR	2.00
GATSEII	7.00	SYLPHIDE	3.50	TURKISH TOPAZ	3.00
HOOGIANA	1.00			VERA	3.00
H. BRONZE					
BEAUTY	2.00				

Shipment August 1 to November 1. Stock is limited on the pure arils and on some of the arilbreds. All orders are booked as received and "subject to crop." Order early.

Aril Slides

We have two slide collections of 150 slides each of pure arils and arilbreds taken in our garden during 1963 to 1970. These may be had free to any person who wants to show them to a flower club or social gathering interested in aril irises. A thirty day notice must be given to assure them for a certain date.

We wish to say "THANK YOU" to the many satisfied customers and friends. Your letters of praise have been most appreciated.

Order direct from this ad.

No Circular or Catalog

Correspondence Invited

HENRY DANIELSON

Visitors Welcome By Appointment
Phone BE-7-6429. Area code 312

LITTLE STRANGER

Anna M. Obermeyer

(Both Dr. Zurbrigg and your editor encouraged Miss Obermeyer, 6 Patton St., High Bridge, N.J. 08829, to write about this unusual iris. The name LITTLE STRANGER has been applied for, and unless Mrs. Negus's files show it already has been used, the name will be granted.)

*From whence it came, we know not where,
LITTLE STRANGER the name, it needs no care!
Hardy in N.J. . . . No heaving at all . . . Up to 34" tall,
An unusual iris that blooms from spring almost to fall.*

As a home gardener, I've had reblooming irises for twelve years. Despite good care, they give lots of bloom in the spring but few in the fall. I have wished for an iris that would bloom for a longer time.

In the summer of 1966, my father said, "There is some kind of plant growing in the lawn. I've mowed it down four times and it is up again. It doesn't look like a weed." I looked; it was an iris pushing through the thick turf. We dug it and planted it in the vegetable garden; there was no room in the flower borders. In the spring of 1967 there were more leaves, but no bloom. In the spring of 1968 we enjoyed the flowers with white standards and lavender falls. It looked like none of my other irises. By spring 1969 the clump was fairly large and there were lots of flowers from the middle to the end of May, with moderate bloom in June, July and August. This spring (1970) the clump was very large, with loads of flowers from the middle to the end of May. It then gave continuous bloom, moderately, until the last flower faded on September 2.

Unlike our other rebloomers, we *never* pushed LITTLE STRANGER for more flowering; no fussing with watering or feeding. It bloomed fourteen weeks on its own. No food; just rain water; and it held up better in the dry spell and 90 degree heat than other plants. Now, in October, other iris leaves droop, but not those of my LITTLE STRANGER; they still stand up.

It seems to have some other virtues we seek. Growing in an unprotected spot, which never is mulched, it draws the harsh winds for the Delaware Water Gap, yet it never has heaved.

We have sent plants of it to Virginia and Texas gardens, and they too report on its hardiness and continuous bloom, without being pushed.

I've wished for an iris that would bloom for a long time, and now I have it. Some hybridizers might have thrown it away. Cut down four times, it wanted to live; I just had to give it a chance. I'm glad it came up in my lawn, for no other iris has given me such pleasure. Each flower through spring and summer seems to be saying to me, "Thank you for letting me LIVE!"

WANTED

OLD ILLUSTRATED IRIS CATALOGS, BOOKS, PAMPHLETS, BROCHURES. ALSO SCHREINER'S CATALOGS FOR 1964, 1962, 1959, 1952 and all earlier.

W. E. McClure

3933 S. 2275 W.

Roy, Utah 84067

AIS JUDGES FOR 1971

Dr. Hugo Wall, Chairman of Judges

The following rosters by Regions include five categories of judges: Garden judges, exhibition judges, senior judges, honorary judges and apprentice judges. In the lists, garden judges are identified by a G, exhibition judges by an E, senior judges by an S, honorary judges by an H, and apprentice judges by an A.

REGION 1

Connecticut

- G RVP, Dr. Frank E. Halleck, Madison
- G Mrs. C. A. Bahret, Danbury
- G Mrs. Edwin D. Bartlett, Guilford
- G Mr. Frederick W. Gadd, Wethersfield
- S Mr. John E. Goett, Monroe
- G Mr. Frederic A. Jacobs, Meriden
- G Mr. Carrol O'Brien, Wallingford
- A Mrs. Carrol O'Brien, Wallingford
- G Mr. Carl G. Schulz, Meriden
- G Mr. Coulson H. Squires, Madison
- S Mrs. Charles I. Stephenson, New Haven
- G Mrs. John Tedesco, Southington
- G Mr. William Thomson, Stamford
- G Mr. Joseph Wascoe, Stratford
- S Mrs. Troy Westmeyer, Stamford

Maine

- A Mr. Sherman N. Hysler, York
- G Mr. Bernard W. McLaughlin, South Paris
- A Mr. Phillip Mollicone, Winthrop
- A Mrs. Phillip Mollicone, Winthrop
- A Mr. Russell B. Moors, Auburn
- A Mrs. Russell B. Moors, Auburn

Massachusetts

- S Mrs. Thelma Barton, Gardner
- H Dr. G. Percy Brown, Barre
- A Mr. John Cochrane, Revere
- H Mrs. Preston E. Corey, Reading
- S Mrs. Irving W. Fraim, Waltham
- A Mr. Anthony Goulet, Fall River
- E Mrs. John Johnson, Quincy
- G Mrs. Stephen C. Kanela, Walpole
- G Mr. Peter Markham, Lunenburg
- G Mrs. Peter Markham, Lunenburg
- S Mrs. Percy I. Merry, Needham
- S Miss Eleanor Murdock, East Templeton
- H Mrs. Thomas Nesmith, Chelmsford
- A Dr. Robert Newton, Weston
- G Mrs. Irving J. Russell, Framingham
- G Mrs. James H. Shepherd, Westboro
- H Mrs. Shirley Spurr, Wakefield

- S Mr. Kenneth Stone, Fitchburg
- G Mr. Carleton J. Ulm, Taunton
- G Mrs. Carleton J. Ulm, Taunton
- G Mr. Kenneth M. Waite, Westfield
- G Mrs. Kenneth M. Waite, Westfield
- G Mrs. Joseph Walsh, Quincy
- S Mrs. Frank W. Warburton, Westboro
- G Mr. Win Wheeler, Sherborn

New Hampshire

- H Mr. John A. Bartholomew, Laconia
- S Mrs. John A. Bartholomew, Laconia
- G Mr. Arthur J. Watkins, Concord
- G Mr. James R. Welch, Manchester

Rhode Island

- A Mr. Herbert L. Baker, West Barrington
- G Mr. Allen P. McConnell, Rumford

REGION 2

New York

- G RVP, Mr. Harry B. Kuesel, Greenvale
- S Mr. Merton Brownell, Mount Upton
- A Mr. Lynn Carmer, Spencerport
- A Mrs. Lynn Carmer, Spencerport
- H Mr. Fred W. Cassebeer, West Nyack
- A Mrs. Angele Colantuoni, Congers
- G Dr. Irwin A. Conroe, Slingerlands
- A Mr. William Cooper, Baldwinsville
- G Mr. Albert F. deGroat, Brockport
- G Mr. LaVerne Dillenbeck, Schenectady
- S Mrs. Harry L. Edwards, Massapequa Park
- G Miss Mary Pat Engel, Kenmore
- G Mr. William Fitzgerald, Rochester
- H Mr. Paul Frese, White Plains
- G Mr. James Gristwood, Phoenix
- G Mrs. James Gristwood, Phoenix
- G Mrs. Jane I. Hall, North Syracuse
- G Mr. Lowell Harder, Churchville
- G Mrs. Thomas Higgins, Syosset
- A Mr. Lewis E. Hohn, Rochester

H Mr. Thomas E. Jacoby, Oakfield
 A Mr. Robert B. Jordan, Boliver
 A Mrs. Gilbert Levine, Scarsdale
 G Mrs. William P. Liebegott, Bellmore
 S Dr. William G. McGarvey, Oswego
 G Mrs. William G. McGarvey, Oswego
 G Mr. William H. Peck, Oyster Bay
 G Mrs. John M. Price, New City
 S Mrs. O. F. Quist, Spring Valley
 H Dr. L. F. Randolph, Ithaca
 G Mr. Robert H. Savage, New Windsor
 A Mrs. Walter H. Savage, North Syracuse
 G Mr. Raymond L. Scheele, Westbury
 G Mr. Herman E. Story, Freehold
 S Mr. John Swantak, South Kortright
 G Mr. Irvin R. Taylor, Fulton
 A Mr. Mitchell Vail, North Syracuse
 A Mrs. Mitchell Vail, North Syracuse
 S Mrs. Carleton Van deWater, New Paltz
 G Mr. Andre Viette, East Norwich
 G Mr. George Paul Watts, Armonk
 A Mrs. Philip Winter, Fayetteville
 G Mr. Albert T. Wirz, Kenmore
 G Mr. E. Freeman Yendall, Kenmore
 G Mrs. Phyllis Zezelic, Massapequa Park
 G Mr. Clinton Ziems, West Monroe

REGION 3

Pennsylvania

G RVP Mrs. Theodore R. Shiner, Nescopech
 A Mr. John A. Boylan, Cambridge Springs
 S Mrs. William E. Chambers, Merion Station
 G Mrs. E. A. Chariott, Moylan
 G Mr. Norman R. Clouser, Sinking Spring
 G Mrs. J. W. Dougherty, Pittsburgh
 S Mrs. Eugene G. Hamill, Hollidaysburg
 A Mr. Harold C. Hieter, Quakertown
 G Mrs. William P. Hill, Allison Park
 G Mr. William T. Hirsch, Havertown
 E Mrs. John H. Hoffman, Kennett Square
 G Mr. Maxwell W. Hunter, Hollidaysburg
 G Mrs. Grant Kegerise, Reading
 G Mrs. Richard P. Kegerise, Temple
 S Mrs. Gustave E. Landt, Norristown
 S Mr. John C. Lyster, Alden
 S Prof. Larry P. Mains, Media
 G Miss Sophia M. Moiles, Johnstown

A Mrs. Helen Molchan, Pittsburgh
 G Dr. A. Edward Murray, Jr., Levittown
 G Mr. Albert E. Murray, Levittown
 G Mr. William C. Newhard, Quakertown
 G Mrs. Jesse L. Pickard, Springfield
 H Mrs. R. Moore Price, New Hope
 G Mrs. Frank Prosky, Pittsburgh
 G Mrs. Herbert Quick, Milford
 G Mrs. Elizabeth H. Rowe, Pittsburgh
 G Mr. Clayton H. Sacks, Collegeville
 G Mr. Paul R. Smith Sanatoga
 S Mrs. Guy E. Stevens, Wellsboro
 G Mr. Raymond Thomas, Saltillo
 G Dr. Frank A. Walchak, Lansdowne
 G Mr. Jack Weber, Yeadon
 H Dr. John C. Wister, Swarthmore

Delaware

G Mrs. Frank W. Hankins, Smyrna

REGION 4

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G RVP Mr. William D. Kelley, Lewisburg
 S Mr. Earl Browder, St. Albans
 G Mrs. J. R. McCracken, Walker
 G Mrs. W. J. McLaughlin, Lewisburg
 G Mrs. Roberta McMullin, Parkersburg
 A Mrs. John E. Van Horn, Nitro

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 G Mr. Maynard E. Harp, Baltimore
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 A Mrs. Fred M. Miller, Towson

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 G Mr. B. J. Brown, Charlotte
 G Mrs. B. J. Brown, Charlotte
 G Mr. John A. Dughi, Raleigh
 A Mrs. John A. Dughi, Raleigh
 G Mrs. Elizabeth Farrar, Mt. Holly
 G Mrs. Craven B. Helms, Monroe
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 G Mrs. D. W. Parham, High Point
 G Mr. Frank C. Sherrill, Davidson

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S Mrs. F. Allen Brown, Roanoke
A Mr. Richard M. Connelly, Herndon
A Mrs. Charles M. Cox, Falls Church
G Mrs. Rena M. Crumpler, Roanoke
G Mrs. J. M. Davidson, Rockbridge Baths
G Rev. Paul E. Folkers, Blairs
G Mr. Thomas R. Ford, Herndon
G Mrs. Guy Kirby, Norfolk
G Dr. Anne L. Lee, Norfolk
G Mr. J. E. Lynn, Jr., Buena Vista
G Mrs. John W. McCoy, Roanoke
G Mrs. Robert L. Munn, Virginia Beach
G Mrs. Hunt Nenon, Chatham
G Mrs. Nelson O. Price, Blacksburg
G Mrs. A. W. Rice, Roanoke
S Mrs. Charles F. Roberts, Norfolk
G Mr. Frederick G. Stephenson, Roanoke
G Mrs. Fred G. Ward, Virginia Beach
G Dr. Lloyd Zurbrigg, Radford

REGION 5

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G RVP, Mrs. Charles Laughinghouse, Columbia
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G Mrs. C. C. Chapman, Williston
E Mrs. W. D. Collins, Edgemoor
G Mrs. John S. Harley, Orangeburg
S Dr. Harvey Hobson, Clemson
G Mrs. Carine D. Johnson, Cayce
G Mr. Charles Laughinghouse, Columbia
G Mrs. B. F. Martin, Columbia
E Mrs. Gilbert H. Rowe, Columbia
G Mrs. Walter S. Suber, Whitmire
S Mrs. Ernest R. Thayer, Spartanburg

Georgia

G Mrs. W. P. Allen, Atlanta
S Mr. Milton W. Blanton, Atlanta
S Mrs. Vivian Buchanan, Atlanta
S Mr. Carl Carpenter, Savannah
G Mrs. Roy Carter, Gainesville
G Mr. James Duren, Morrow
G Miss Helen Estes, Gainesville
S Mrs. Drew Ferguson, West Point
G Mr. Johnson B. Hale, LaGrange
G Mrs. Johnson B. Hale, LaGrange
E Mrs. Willie Rice Hurst, Marshallville
G Mrs. Lucia McKay, Rome
S Mr. M. Boydston Satterfield, Atlanta

S Mrs. Margaret Tolleson, Atlanta
G Mr. Harry Turner, Atlanta
E Mrs. J. W. Weaver, Rome

REGION 6

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H Mr. Jay C. Ackerman, Lansing
S Mr. Bennett S. Azer, Mio
G Mr. John L. Briggs, Kalamazoo
S Mr. J. Nelson Brown, Bloomfield Hills
S Mrs. Edwin R. Crosby, Flint
A Mrs. Donald Dopke, Detroit
G Mr. Arthur Hazzard, Kalamazoo
G Mrs. Lila Howland, Morrice
G Mr. Robert Mallory, Grand Rapids
S Mrs. Clarence Maynard, Royal Oak
G Mr. Ronald F. Miller, Kalamazoo
G Mrs. Chester Robarts, Whittemore
G Mrs. Edward Robinson, Lansing
G Mr. Ernest L. Shantz, Fairview
G Mr. William D. Simon, Westland
G Mrs. Orwin Wilhelmsen, Livonia
G Mr. Frank A. Williams, Kalamazoo

Indiana

S Mrs. Adda E. Ayres, Redkey
G Mrs. James A. Crist, Franklin
G Mrs. Paul Dunbar, Indianapolis
G Mrs. Robert Edwards, Indianapolis
G Mr. Bernard Hobbs, Noblesville
G Mrs. Bernard Hobbs, Noblesville
S Mr. Forrest V. McCord, Muncie
G Mr. Daniel Overholser, New Albany
G Mrs. Daniel Overholser, New Albany
G Mrs. Lucille Pence, Indianapolis
S Mrs. Noel E. Proctor, Fairmount
S Mr. Earl R. Roberts, Indianapolis
G Mrs. Earl R. Roberts, Indianapolis
G Mr. Raymond G. Smith, Bloomington
G Mr. Raymond Thomas, Indianapolis
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G Mr. Harold Van Treese, Indianapolis
H Mr. Walter Welch, Middlebury
G Mr. Robert Welshans, Indianapolis
H Miss Mary Williamson, Bluffton
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S Dr. Raymond C. Allen, Mansfield
G Mr. Willard Barrere, Akron
G Mr. Myron C. Beard, Akron

S Mrs. Frank A. Biggio, Steubenville
 S Miss Olive Bowman, Woodville
 G Mr. Paul Brink, Milan
 A Mrs. Harold Cooper, Brookfield
 G Mr. Paul Dillery, Bellevue
 G Mr. Marion Dow, Crestline
 G Mr. Lee Eberhardt, Springfield
 G Mr. L. P. Irvin, Oxford
 G Mr. James E. McClintock, North Olmsted
 S Mrs. James E. McClintock, North Olmstead
 G Mr. Steve Moldovan, Avon
 S Mrs. Carl W. Naas, Celina
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 G Mr. Edmond Siegling, Gahanna
 A Mrs. Edmond Siegling, Gahanna
 G Mrs. Harold Slessman, Willard
 G Mr. Fred Taylor, Masury
 G Mrs. Frederick Thaler, Mansfield
 G Mr. Eugene D. Tremmel, North Royalton
 E Mrs. E. D. Warner, Brookville
 H Mr. Donald G. Waters, Elmore
 G Mr. Vincent C. Wiley, Columbus
 G Mr. Anthony Willott, Cleveland
 G Mrs. Anthony Willott, Cleveland

REGION 7

Tennessee

G RVP, Chaplain Calvin S. Cunningham, Murfreesboro
 G Mrs. Nathan Bauman, Memphis
 S Mr. W. T. Bledsoe, Fayetteville
 G Mrs. W. T. Bledsoe, Fayetteville
 G Mrs. Stanley Boren, Lewisburg
 G Mr. Joe Brinkerhoff, Memphis
 H Mr. Sam Y. Caldwell, Nashville
 G Mrs. E. F. Crenshaw, Memphis
 A Mrs. Kearney Crick, Lewisburg
 G Mrs. Ray M. Dairymple, Sr., Memphis
 G Mr. Ben Fonville, Memphis
 H Mrs. Edwin R. Fox, Memphis
 G Mr. A. E. Galyon, Knoxville
 S Dr. Frank B. Galyon, Knoxville
 E Mrs. Edgar Green, Lewisburg
 S Mrs. J. W. Judd, Chattanooga
 G Mrs. O. W. Lyle, Chattanooga
 A Mr. Edward M. McBroom, Jr., Memphis

G Mrs. R. N. Miller, Memphis
 G Mrs. Guy Moran, Knoxville
 G Mr. H. W. Neubert, Knoxville
 G Mrs. Adelaide Peterson, Nashville
 G Mr. E. B. Pittard, Memphis
 A Mrs. Dick Reynolds, Nashville
 G Mrs. R. G. Ross, Jr., Memphis
 S Mr. Jake H. Scharff, Memphis
 G Mrs. Shirley Sides, Memphis
 G Mr. Phillip A. Williams, Rockvale
 H Mr. Jesse E. Wills, Nashville

Kentucky

G Mr. James W. Alexander, Lexington
 G Mrs. James W. Alexander, Lexington
 G Mr. Franklin P. Brewer, Lexington
 G Mrs. J. Robert Burns, Louisville
 A Mrs. Jared Elliott, Owensboro
 G Mrs. Reed Elliott, Lexington
 A Mrs. Charles L. Hare, Lexington
 G Mrs. D. F. Hill, Lexington
 G Dr. Hubert C. Mohr, Lexington
 G Mr. Henry Rabe, Ft. Mitchell
 G Mrs. V. E. Teeter, Louisville
 A Mr. A. J. Vogt, Louisville
 A Mrs. Robert C. Walsh, Lexington
 G Mrs. Ann Willenbrink, Louisville

REGION 8

Minnesota

S RVP, Mr. Wilbert G. Sindt, Stillwater
 A Dr. Reuben David, Hopkins
 G Mrs. LeRoy Duvall, Minneapolis
 S Mr. Granville B. Gable, Minneapolis
 S Mr. Glenn F. Hanson, Minneapolis
 G Mrs. Glenn F. Hanson, Minneapolis
 G Mrs. George F. Lankow, Minneapolis
 G Mrs. D. C. Messer, Excelsior
 G Mr. Stanton C. Rudser, Minneapolis
 G Rev. David B. Sindt, Stillwater
 S Mrs. Alice Stenoien, Minneapolis
 G Mrs. Clifford Stover, Minneapolis
 G Mr. Julius Wadekamper, St. Paul
 G Mrs. Tom D. Wright, Bloomington

Wisconsin

G Mrs. Peter Baukus, West Allis
 G Mr. Melvin Bausch, Mequon
 G Mrs. Melvin Bausch, Mequon
 S Mr. Arthur Blodgett, Waukesha
 G Mrs. Arthur Blodgett, Waukesha
 G Mrs. H. W. Goodrick, Brookfield

G Mr. Frederick C. Jahnke, Cedarburg
 G Mr. Royal Johnson, Wind Lake
 G Mrs. Jack K. Kimber, Milwaukee
 G Mr. Walter A. Machulak, Hales
 Corner
 G Mrs. Walter A. Machulak, Hales
 Corner
 G Mrs. George Nev, Milwaukee
 G Mr. Clarence H. Protzmann, Milwau-
 kee
 S Mr. Robert Reinhardt, New Berlin
 S Mrs. Robert Reinhardt, New Berlin
 G Mrs. John E. Troka, Milwaukee
 G Mrs. Edna Yunker, Taycheedah
 G Miss Nadine Yunker, Taycheedah

REGION 9

Illinois

G RVP, Mr. Edwin T. Drake, Park
 Ridge
 G Mrs. Michael Birkholtz, Lombard
 S Mr. Fred E. Bond, Albion
 S Dr. Charles E. Branch, Piper City
 G Mr. Harley E. Briscoe, White Hall
 G Mrs. Czarina Brown, Marion
 G Mr. John C. Brown, Collinsville
 G Mr. W. C. Carter, Herrin
 S Mrs. Fred H. Clutton, Highland Park
 G Mrs. Clyde Cox, Eldorado
 G Mr. Henry Danielson, Chicago
 G Mrs. E. H. T. Drake, Park Ridge
 G Mrs. Victor DuJardin, Jr., Addison
 H Mrs. William G. DuMont, Evanston
 H Mr. Orville W. Fay, Northbrook
 H Mr. Hubert Fischer, Hinsdale
 G Mr. Ferris G. Gaskill, Barrington
 H Mr. Richard Goodman, Riverside
 H Mrs. R. E. Greenlee, Chrisman
 G Mrs. William Hagberg, Westmont
 S Mrs. John Harrell, Aurora
 H Mrs. W. J. Hinkle, Marion
 G Mr. G. E. Hubbard, DeKalb
 G Mr. Karl F. Jensen, Belvidere
 G Mrs. Karl F. Jensen, Belvidere
 G Mr. Leonard Juggle, Elmhurst
 G Mr. Sherman A. Kindell, Maywood
 G Mr. George Livingston, Earlville
 G Mr. James E. Marsh, Chicago
 G Mr. James Mason, Chicago
 G Miss Ruth Messer, West Chicago
 G Mrs. Mildred B. Midjaas, Carbondale
 G Mrs. L. F. Murphy, Mt. Vernon
 H Bro. Charles Reckamp, Techny
 G Mrs. Frieda M. Redenbo, Smithboro
 G Miss Marilyn J. Redenbo, Smith-
 boro

S Mr. Nathan H. Rudolph, Aurora
 G Mrs. Nathan H. Rudolph, Aurora
 G Mr. Richard Sanders, Wheaton
 G Mrs. E. P. Sawyer, Urbana
 G Mr. C. J. Sheaff, Ottawa
 G Mrs. C. J. Sheaff, Ottawa
 G Mr. Marvin Shoup, Kankakee
 G Mr. Richard J. Sloan, Gurnee
 G Mr. John M. Thompson, Springfield
 G Mr. James S. Tucker, Centralia
 G Mr. D. Steve Varner, Monticello
 S Mr. Edward E. Varnum, Villa Park
 G Mrs. Edward E. Varnum, Villa Park

REGION 10

Louisiana

S RVP, Mr. Charles W. Arny, Jr.,
 Lafayette
 G Miss Aline Arceneaux, Lafayette
 S Miss Marie Caillet, Lafayette
 H Mrs. Walter Colquitt, Forbing
 S Mrs. W. E. Conger, Arcadia
 A Mr. Don Dugal, Lafayette
 E Mrs. Robert Ehrhardt, Sr., Shreve-
 port
 G Dr. W. E. Fletcher, Lafayette
 G Dr. James Foret, Lafayette
 G Mrs. W. J. Gaidry, Houma
 G Mr. Marvin Granger, Lake Charles
 G Miss Faenelia Hicks, Lafayette
 E Mrs. Erwin Jordan, Alexandria
 H Mr. W. B. MacMillan, Abbeville
 G Dr. B. H. McSparrin, Alexandria
 G Mr. Joseph Mertzweiller, Baton
 Rouge
 G Mrs. Ira Nelson, Lafayette
 G Mrs. Ruth Noel, Shreveport
 G Mr. Roderick H. Outland, Natchi-
 toches
 G Mr. Jules Patin, Lafayette

REGION 11

Idaho

G RVP, Mrs. Don Holtz, Kellogg
 G Mrs. Floyd Bandy, Twin Falls
 G Mr. Don Chadd, Twin Falls
 S Mrs. Ed Conrad, Buhl
 G Mrs. E. J. Henke, Boise
 A Mrs. Charles E. Holtz, Hope
 S Mr. Robert L. Jensen, Montpelier
 S Mrs. Alfred Kramer, Castleford
 G Mrs. Clifford Lee, McCall
 G Mr. Neil A. Mogensen, Fruitland
 S Mrs. Ralph S. Nelson, Coeur
 d'Alene

G Mrs. Victor Nelson, Twin Falls
 S Mrs. Estelle Ricketts, Jerome
 G Mrs. Carl Smith, Lewiston
 S Mrs. S. W. Smith, Twin Falls
 S Mrs. Glen Suiter, Eagle
 S Mrs. Wilma Vallette, Declo

Montana

A Mrs. Duane Cass, Missoula
 G Mrs. Robert Gray, Missoula
 S Mrs. Marvin Hart, Missoula
 S Dr. Homer Metcalf, Bozeman
 G Mrs. W. R. Walters, Great Falls

Wyoming

S Mrs. C. Arvid Nelson, Laramie
 S Mrs. Lowell Storm, Chugwater

REGION 12

Utah

G RVP, Mr. Herbert Spence, Ogden
 G Mr. Tony L. Ballard, Smithfield
 G Mrs. P. H. Barkdull, Logan
 G Mrs. Townley Brian, Ogden
 G Mrs. David Burton, Salt Lake City
 S Mrs. Luzon Crosby, Orem
 G Mrs. T. O. Daley, Ogden
 G Mrs. C. M. Decker, Ogden
 G Mrs. Louis Deru, Ogden
 A Miss Charlotte Easter, Salt Lake City
 G Mr. J. R. Hamblen, Roy
 S Mrs. J. R. Hamblen, Roy
 G Mrs. H. C. Hansen, Logan
 G Mrs. Merrill S. Johnson, Salt Lake City
 G Dr. Odell Julander, Springville
 S Mr. Carl A. Larsen, Salt Lake City
 G Mr. George Mayberry, Provo
 G Mr. W. E. McClure, Roy
 G Mrs. Wm. R. Middlemiss, Salt Lake City
 H Mr. Tell Muhlestein, Orem
 G Mrs. Thomas Osguthorpe, Salt Lake City
 G Mr. Les Peterson, Salt Lake City
 A Mr. Harold Pyle, Salt Lake City
 S Mr. C. M. Reynolds, Bountiful
 G Mrs. C. M. Reynolds, Bountiful
 S Mr. Raymond C. Solomon, Salt Lake City
 G Mr. Ben Stanger, Sunset
 G Mrs. Merlin Tams, Wellsville
 G Mr. Bion Tolman, Salt Lake City
 G Mr. Keith Wagstaff, Salt Lake City

REGION 13

Washington

G RVP, Mr. Foster H. Allen, Washougal
 G Mrs. G. D. Bletcher, Spokane
 G Mr. Donald J. Boen, Walla Walla
 A Mr. Jack Boushay, Cashmere
 G Mrs. C. T. Bromley, Richland
 S Mrs. Rex P. Brown, Kirkland
 G Mr. Charles F. Carper, Seattle
 S Mr. Norris W. Carter, Spokane
 S Mr. Merle Daling, Waterville
 G Mr. B. LeRoy Davidson, Seattle
 G Mrs. John W. Fox, Kennewick
 G Mrs. Evelyn Garcia, Sunnyside
 S Mrs. Alexia Gerberg, Naches
 G Mr. Paul Harms, Spokane
 G Mrs. T. C. Hobart, Greenacres
 S Dr. Frederick R. Judy, Spokane
 A Mrs. M. L. Maxwell, Walla Walla
 S Mrs. W. L. Mize, Bellingham
 G Mr. Austin Morgan, College Place
 G Mrs. Walter Noyd, Wenatchee
 G Mr. H. M. Parker, Richland
 A Mrs. H. M. Parker, Richland
 S Mr. Gordon W. Plough, Wenatchee
 G Dr. Richard S. Rosenfels, Richland
 S Mrs. J. D. Ruggles, Bellingham
 H Mrs. Hazel Schmelzer, Walla Walla
 G Mrs. S. M. Sisley, Spokane
 S Mrs. Jake L. Smith, Waitsburg
 G Mrs. William F. Snell, Outlook
 G Mrs. Lewis Trout, Moses Lake

Oregon

G Mr. Ronald J. Beattie, Canby
 S Mrs. Tom H. Brown, Milton-Free-water, Ore.
 H Mr. R. M. Cooley, Silverton
 G Mrs. James N. Craig, Klamath Falls
 H Mrs. Fred DeForest Sr., Canby
 G Mr. Larry Ernst, Silverton
 G Mrs. Mabel Framke, Canby
 A Mr. George A. Galer, Portland
 G Mrs. John F. Hardy, Eugene
 S Mr. Bennett C. Jones, Portland
 H Dr. H. E. Kleinsorge, Silverton
 A Mrs. Lorena M. Reid, Springfield
 S Mrs. Marjorie Roark, Grants Pass
 H Mr. Bernard Schreiner, Salem
 H Mr. Robert Schreiner, Salem
 S Mr. George Shoop, Portland
 A Mrs. Delora I. Smith, Springfield
 S Mr. C. W. Tompkins, Canby

REGION 14

Northern California

G RVP, Mrs. Marilyn J. Holloway, Sacramento
G Mrs. Ermah F. Ballard, Redding
G Mr. Robert M. Brown, Berkeley
G Mrs. Sam Burnett, Sacramento
G Mrs. E. V. Butler, Sacramento
G Mr. Ralph B. Coleman, Los Gatos
G Mr. Glenn F. Corlew, Walnut Creek
G Mrs. Edith Coscarelly, San Jose
G Mr. Frank L. Crouch, Berkeley
S Mrs. Peg Debagh, Berkeley
G Mrs. Sidney B. DuBose, Stockton
G Mrs. Robert L. Dunn North Highlands
G Mr. Philip Edinger, Cloverdale
G Mr. Thomas W. F. Foster, Walnut Creek
S Mr. Joseph Gatty, Stockton
H Mr. Larry Gaulter, Castro Valley
G Mrs. Larry Gaulter, Castro Valley
G Mr. Ralph Geyer, Mountain View
G Mr. Joseph J. Ghio, Santa Cruz
G Mr. James M. Gibson, Porterville
G Mr. Tommy D. Graham, Antioch
G Mr. Ben R. Hager, Stockton
G Mrs. Alleah S. Haley, Berkeley
S Mr. Frank E. Hutchings, San Leandro
G Mrs. James Ingle, Tulare
G Mr. Robert E. Jerrell, Orinda
S Mrs. Ethel A. Johnson, Fremont
G Mr. George W. Johnson, Fremont
G Mr. Keith Keppel, Stockton
G Mrs. Violet Lorenz, Chico
G Mr. Walter F. Luihn, Hayward
G Mr. Paul Maxim, Redding
E Mrs. Paul Maxim, Redding
G Mrs. Duane E. Meek, Concord
G Mrs. William Messick, Lafayette
G Mrs. R. Nelson Nicholson, Stockton
S Mr. Roy Oliphant, Berkeley
S Mr. Donald L. Peterson, Campbell
S Mr. Carl A. Quadros, Sacramento
G Mr. Fremont F. Radcliffe, Pittsburg
S Miss Ruth Rees, San Jose
H Mrs. Bernice R. Roe, San Jose
S Mrs. A. L. Romer, Ukiah
G Mrs. Virginia L. Ross, Roseville
S Mr. W. B. Schortman, Porterville
G Mr. Frank Scott, San Jose
H Miss Hazel Stewart, San Jose
G Mrs. Mona Stipp, Santa Rosa
E Mrs. Eleanor Venum, San Jose
G Mr. John H. Weiler, Fresno

G Mr. Dennis A. Wilkie, San Jose
G Mr. Vernon D. Wood, Pinole

Nevada

G Mrs. Mark Condo, Las Vegas
G Mrs. Marvin Ray, Las Vegas
G Mr. Joseph R. Sanfratel, Las Vegas

REGION 15

Southern California

G RVP, Mr. Arthur B. Day, Chula Vista
G Mr. Thornton B. Abell, Santa Monica
G Mrs. Kenneth B. Anderson, La Canada
A Mr. Robert C. Brooks, San Marcos
G Mrs. Walter Bunker, San Diego
G Mrs. N. R. Carrington, San Diego
S Mrs. Ralph Conrad, Van Nuys
G Mrs. D. D. Cook, North Hollywood
S Dr. Clarke Cosgrove, San Gabriel
G Mr. Duncan Eader, Arcadia
H Mr. Walker Ferguson, Escondido
G Mrs. Charles R. Foster, Sierra Madre
G Mrs. Harry B. Frey, Riverside
A Mrs. Jack S. Garrison, Murrieta
G Mr. William J. Gunther, Del Mar
G Mrs. Dick Hadley, Arlington
G Mrs. Bernard L. Hamner, Perris
G Mrs. William Hawkinson, El Monte
H Mrs. Elsie Heimer, Van Nuys
G Mr. Raymond E. Hiser, Spring Valley
G Mr. Lerton W. Hooker, Spring Valley
S Mr. C. R. Hopson, San Gabriel
G Mrs. Mary N. Hoskins, Bakersfield
G Mrs. Margaret Howard, Escondido
G Mr. Robert P. Hubley, La Mirada
G Mrs. Clarence Joris, San Bernardino
A Mrs. Frances Kuhs, Bakersfield
G Mrs. L. Brooks Lawson, Escondido
A Mrs. Thelma O. Leaton, Glendale
H Dr. Lee W. Lenz, Claremont
G Mrs. Frank McCown, Holtville
G Mrs. George W. Nelson, Arlington
S Mrs. Edward Owen, Leucadia
G Mr. S. August Phillips, Inglewood
G Mrs. B. D. Pilley, Valley Center
G Mr. Jose Rivera, Fallbrook
G Mrs. George M. Roach, Los Angeles
G Mr. Mark E. Rogers, Yucaipa
G Mrs. Barbara Serdynski, Los Angeles
G Mrs. Joseph Shirley, Los Angeles
H Mrs. Otto Stuetzel, Woodland Hills

G Mr. Harry A. Tate, Sunnymead
 G Mrs. John Tearington, Hawthorne
 G Mr. Collie Terrell, Wasco
 A Mrs. Lillian Terrell, Wasco
 H Mr. Marion R. Walker, Ventura
 G Mrs. Wayne W. Weaver, Lakeside

Arizona

G Mrs. Genevieve Jasper, Tucson
 G Mr. Ralph A. Johnson, Phoenix
 G Mrs. Virginia Mathews, Willcox
 G Mr. Herbert McKusick, Globe
 G Mrs. John W. Turner, Tucson

REGION 16

Canada

G RVP, Mr. Douglas Insleay, Montreal
 G Mr. Donald V. Fritshaw, Hamilton
 E Mrs. W. A. Harris, Toronto
 G Mr. Bruce Richardson, Hannon
 S Mrs. Alberta Richardson, Hannon
 G Mr. M. D. Smith, Toronto

REGION 17

Texas

G RVP, Mr. L. E. Brooks, Iowa Park
 G Mrs. Fred Acrey, Dallas
 G Mrs. A. M. Aikin, Jr., Paris
 G Mr. C. J. Andrews, Arlington
 G Mrs. H. P. Ballengee, Phillips
 G Mrs. Charles E. Benson, Lubbock
 S Mr. Z. G. Benson, Wichita Falls
 G Mrs. R. C. Blevins, Fort Worth
 G Mrs. J. Gordon Bristow, Big Spring
 S Mrs. L. E. Brooks, Iowa Park
 G Mrs. J. H. Burge, Denton
 S Mrs. Lawrence Burt, Waco
 G Mrs. R. L. Campbell, Sherman
 G Mrs. E. S. Carter, Wichita Falls
 G Mrs. Preston A. Childers, Temple
 G Dr. J. W. Collier, Bryan
 G Mr. Jim D. Coward, Waxahachie
 G Mrs. K. G. Davis, Chillicothe
 G Mr. Robert Demory, Richardson
 G Dr. Clarence P. Denman, Fort Worth
 G Mr. L. E. Flanagan, Fort Worth
 H Mr. David J. Flesh, Jefferson
 G Mrs. H. F. Fulkerson, Dallas
 G Mrs. Doyle Gray, Belton
 G Mr. Myron Guither, Grand Prairie
 G Mr. Theodore G. Harris, El Paso
 S Mr. H. H. Henkelman, Fort Worth
 G Mrs. Finley Herrington, Lorenzo
 G Mr. Paul Horn, Fort Worth
 A Mrs. Charles Howard, Lubbock

G Mrs. L. O. Jordan, Dallas
 G Mrs. Vernon H. Keesee, Lubbock
 G Mrs. Grady Knight, Lubbock
 G Mrs. Jack Lawhorn, Temple
 S Mr. W. D. Lee, Houston
 S Mrs. Joe M. Leonard, Sr., Gainesville
 A Mrs. W. A. Messer, Belton
 A Mrs. Dean Miller, Iowa Park
 S Mr. M. W. Norton, Jr., Dallas
 S Mrs. M. W. Norton, Jr., Dallas
 S Mrs. Stayton Nunn, Houston
 G Mr. William K. Patton, Matador
 G Mrs. Edwin Pool, Brownwood
 G Mrs. Elizabeth A. Reneau, Belton
 G Mrs. C. C. Rockwell, Jr., Fentress
 H Mr. Guy Rogers, Wichita Falls
 H Mrs. Guy Rogers, Wichita Falls
 G Mrs. Les Rowland, Abilene
 G Mrs. John C. Sexton, El Paso
 G Mr. Robert M. Smiley, Fort Worth
 G Mrs. Wynnaline Stinson, Dallas
 S Mrs. A. M. Tallmon, Nocona
 G Mrs. Dorothy M. Welch, El Paso
 G Mrs. N. W. Williams, Fort Worth
 G Mrs. Ruth Wilson, Brownwood
 G Mr. Leon C. Wolford, Dallas

REGION 18

Kansas

G Mr. J. Donald Puett, Baxter Springs
 G Mr. George A. Bender, McPherson
 G Mrs. George A. Bender, McPherson
 S Mr. Roy Brizendine, Topeka
 G Mrs. Roy Brizendine, Topeka
 G Mr. W. F. Brown, Wichita
 A Mrs. Velma Carlson, Wichita
 G Mrs. M. E. Christlieb, Severy
 G Miss Mabel Fitch, Shawnee Mission
 A Mr. James W. Fry, Wichita
 A Mrs. James W. Fry, Wichita
 G Mr. Herbert Graves, Friend
 S Mrs. Ervin Gruben, Scott City
 A Mrs. Una Hamilton, Wichita
 G Mrs. Paul Hatcher, Emporia
 S Mrs. Charles Heisz, Selden
 A Rev. Robert Jeffries, Ellsworth
 G Mrs. Charles Jendel, Wichita
 G Mr. Floyd Jones, Garden City
 S Rev. David R. Kinish, Atchison
 G Mr. Russell Morgan, Parsons
 G Mrs. Russell Morgan, Parsons
 H John Ohl, Mulvane
 G Mr. Fred Paulsen, Wichita

G Mrs. Fred Paulsen, Wichita
 G Mrs. J. Donald Puett, Baxter Springs
 G Mrs. Richard Ramsey, Wichita
 G Mrs. Helen Reynolds, Eldorado
 A Mrs. Burdella Rhodes, Wichita
 G Mrs. Harlan Rogers, Emporia
 A Mrs. M. L. Russell, Garden City
 S Mrs. J. H. Salley, Liberal
 S Mr. J. L. Schoonover, Humboldt
 S Mrs. N. J. Smiley, Stafford
 G Mr. Ralph Stuart, Wichita
 G Mrs. George Torrey, Wichita
 A Mrs. Robert Ven John, Dodge City
 S Dr. Hugo Wall, Wichita
 G Mrs. Hugo Wall, Wichita
 G Mr. George Warner, Junction City
 A Mrs. Omar R. Werner, Hutchinson
 A Mrs. Gladys Young, Parsons

Missouri

G Mrs. Fletcher Bell, Rich Hill
 G Mrs. Louise Bellegamba, Bridgeton
 S Mr. Clifford W. Benson, Chesterfield
 S Miss Lily Buder, St. Louis
 S Mrs. Walter H. Buxton, St. Louis
 G Mrs. James Lee Chism, Festus
 G Mr. Bob Crockett, Joplin
 G Mrs. Bob Crockett, Joplin
 S Mrs. W. O. Fleck, Independence
 G Mr. C. L. Fondoble, Washburn
 G Mrs. C. L. Fondoble, Washburn
 S Mr. Allen Harper, Kansas City
 G Miss Annabel Hennrich, Ironton
 G Mrs. Wallace Klemp, Farmington
 G Mr. M. J. McHugh, Kansas City
 G Mr. C. Robert Minnick, Kansas City
 G Mrs. C. Robert Minnick, Kansas City
 G Mrs. Paul Newman, Ironton
 G Mr. O. D. Niswonger, Cape Girardeau
 G Mr. Marvin G. Olson, Webster Groves
 G Mrs. Marvin G. Olson, Webster Groves
 G Mr. Ray C. Palmer, Manchester
 S Mrs. Ray C. Palmer, Manchester
 G Mr. Victor Quesnel, Farmington
 G Mrs. Victor Quesnel, Farmington
 G Mr. Elvan Roderick, Desloge
 H Mr. Carl C. Schirmer, St. Joseph
 H Mr. W. F. Scott, Jr., Ferguson
 S Mr. Herman J. Selle, Kansas City
 A Mrs. Arthur Lee Smith, Rich Hill
 S Mr. S. G. Street, Independence
 S Mr. Elmer Tiemann, Frederickstown
 G Miss Gene Wild, Sarcoxie

REGION 19

New Jersey

G RVP, Mrs. Ira E. Wood, New Providence
 G Mrs. Elizabeth Aulicky, Warren
 G Mrs. A. L. Bellmer, Toms River
 G Mr. Raymond J. Blicharz, Trenton
 G Mr. Franklin E. Carr, Bordentown
 G Mr. Paul Hoffmeister, Westwood
 G Mrs. Paul Hoffmeister, Westwood
 A Mr. B. J. Houseward, Jr., Hawthorne
 G Dr. Frederick J. Knocke, Readington
 G Mr. William J. Krasting, Wenonah
 G Mr. Melvin Leavitt, Whitehouse
 A Mr. Frederick J. McAlicie, Tenaflly
 A Mrs. Frederick J. McAlicie, Tenaflly
 G Mr. Daniel J. McNamara, Hightstown
 A Mrs. Lloyd F. Rake, Titusville
 G Mr. Clement B. Reeves, West Cape May
 G Mr. Willard I. Rogers, Berkeley Heights
 H Mrs. F. P. Walther, Upper Montclair
 S Mr. Ira E. Wood, New Providence
 G Mr. Stephen Zdepski, Milford

New York

H Mr. Edwin Rundlett, Staten Island
 S Mrs. Kenneth D. Smith, Staten Island

REGION 20

Colorado

G RVP Dr. Carl J. C. Jorgensen, Fort Collins
 S Mr. O. T. Baker, Denver
 S Dr. John R. Durrance, Denver
 G Mrs. Don Edelman, Fort Morgan
 G Mr. Frank J. Foster, Colorado Springs
 G Col. Ralph Hargreaves, Castle Rock
 G Mr. John Hartman, Arvada
 G Mrs. Samuel L. Heacock, Denver
 S Mr. Joseph H. Hoage, Lakewood
 G Mrs. M. H. Hurlburt, Denver
 G Mrs. Thomas A. Johnson, Denver
 S Mr. Everett C. Long, Boulder
 G Mr. Thomas L. Magee, Littleton
 A Mrs. Bethel Martin, Greeley
 A Mr. Frederic H. Nicholl, Arvada
 G Mr. Joseph O. Riley, Denver

G Mrs. Harlan D. Shields, Grand Junction
 G Mrs. Henry L. Shields, Bayfield
 G Mrs. Russell D. Spotts, Fort Morgan
 G Mrs. Ethel Weber, Denver
 G Mrs. Charles Wedow, Denver

REGION 21

Iowa

G RVP, Mr. Leo W. Framke, Blencoe
 A Mrs. R. B. Bates, Davenport
 A Mrs. Iris Bohnsack, Traer
 S Mrs. B. E. Ellis, Ottumwa
 S Mrs. J. G. Gutekunst, Marshalltown
 G Mr. Floyd Helt, Sioux City
 G Mrs. L. N. Hockett, Marshalltown
 H Mrs. Ralph E. Ricker, Sioux City
 G Mr. Arthur E. Row, Mason City
 G Mr. Kempton Settle, Marshalltown
 G Mr. Fred E. Spahn, Dubuque
 H Mr. Charles G. Whiting, Mapleton
 G Dr. R. W. Wilder, Stanhope

Nebraska

A Mrs. John Bierman, Battle Creek
 G Mr. Wayne Buchholz, Lexington
 G Mrs. John D. Cox, Lexington
 G Mrs. J. N. Cox, Norfolk
 A Miss Margaret DeCamp, Meadow Grove
 G Mr. Allan Ensminger, Lincoln
 A Mrs. Allan Ensminger, Lincoln
 G Mrs. Arnold Freudenburg, Norfolk
 S Mrs. Hazel Grapes, Big Springs
 G Mr. Larry L. Harder, Ponca
 G Mrs. A. J. Harvey, Lexington
 S Mrs. Leon High, Lexington
 G Mr. Lester Hildenbrandt, Lexington
 A Mr. Roy Johnson, Norfolk
 S Mrs. Lucille J. Kavan, Omaha
 S Mr. W. M. Keeling, Falls City
 G Mrs. Jerome Keenan, Lexington
 G Mr. Ralph E. Lewis, Hastings
 A Mrs. Gladys Maas, Hoskins
 H Dr. J. Arthur Nelson, Omaha
 S Mrs. J. Arthur Nelson, Omaha
 G Mr. Roger Nelson, Wayne
 G Mrs. N. S. Pederson, Norfolk
 G Mrs. C. V. Robertson, Chambers
 H Mr. Henry Sass, Bennington
 G Mr. Arnold E. Schliefert, Murdock
 G Mrs. Frank Skrdla, O'Neill

South Dakota

G Mr. John E. Griffin, Sioux Falls
 A Mrs. Clif Martindale, Sioux Falls
 S Mr. Clifford Smith, Vermillion

REGION 22

Arkansas

G RVP, Mr. Hoyt Smith, Little Rock
 G Mrs. Earl Brandon, Bald Knob
 G Mr. Richard Butler, Little Rock
 G Mr. Oren E. Campbell, N. Little Rock
 G Mrs. Oren E. Campbell, N. Little Rock
 S Mr. Frank Chowning, Little Rock
 G Mrs. Zeh Dennis, Jr., Hot Springs
 S Mrs. Zeh Dennis, Jr., Hot Springs
 G Mr. Byron Grebe, Hot Springs
 A Mrs. Lester King, North Little Rock
 A Mrs. Helen Laessig, North Little Rock
 G Mr. Richard Morgan, Little Rock
 G Mr. Henry Rowlan, Little Rock
 G Mr. Joe Saia, Helena
 S Mrs. Vay B. Sargo, Hot Springs
 G Mrs. Hoyt Smith, Little Rock
 G Mrs. Joe Smith, Hot Springs
 G Mrs. Leo Whitten, N. Little Rock

Oklahoma

S Mr. Wiley Abshire, Seminole
 G Mr. M. B. Bartley, Enid
 S Mrs. C. C. Clark, Oklahoma City
 G Mrs. J. P. Crawford, Purcell
 G Mr. C. A. Cromwell, Jr., Oklahoma City
 G Mrs. Wayne Drumm, Stillwater
 G Miss Betty Emmons, Okeene
 G Mrs. Howard Estes, Oklahoma City
 G Mr. W. G. Frass, Enid
 S Mrs. R. L. Gilbert, Lawton
 G Mrs. H. V. Glitsch, Woodward
 G Mr. Robert Henry, Ardmore
 G Mrs. Robert Henry, Ardmore
 G Mrs. H. R. Hensel, Norman
 G Mr. Alva J. Hickerson, Tulsa
 G Mrs. Alva J. Hickerson, Tulsa
 H Miss Eleanor Hill, Tulsa
 G Mr. John Humphrey, Stillwater
 S Mrs. John E. Jennings, Wynnewood
 G Dr. W. E. Jones, Oklahoma City
 G Mrs. Charles E. Kenney, Tulsa
 G Mrs. Ed C. Kurtz, Walters
 G Mrs. C. R. Mason, Edmond
 S Mrs. C. E. McCaughey, Oklahoma City
 G Mrs. J. B. McConnell, Tulsa
 G Mr. Ronald Mullin, Marlow
 G Mr. Tom Munger, Jr., Enid
 G Mr. Perry L. Parrish, Oklahoma City
 G Mrs. Ica Pierson, Lawton
 G Mrs. H. G. Plato, Oklahoma City

S Mrs. Russell Pryor, Oklahoma City
 G Miss Leah Ralls, Edmond
 G Dr. M. L. Saddoris, Cleveland
 G Mrs. M. L. Saddoris, Cleveland
 G Mr. Ted Schwachhofer, Muskogee
 S Mr. Kenneth J. Shaver, Bethany
 G Mr. Perry L. Shelley, Oklahoma City
 S Mrs. Iris Smith, Hitchcock
 G Mrs. Al Spencer, Tulsa
 S Mrs. Cyrus Stanley, Yukon
 G Mrs. O. L. Sullivan, Tecumseh
 S Mrs. James True, Lawton
 G Mrs. J. J. Truscott, Shawnee
 G Mrs. Mike Van Meter, Bethany
 G Mr. Charles L. Waltermire, Walters
 G Mrs. Rex White, Lawton

REGION 23

New Mexico

G RVP, Mr. Ernest P. Wilson, Albuquerque
 G Mrs. Richard Bohannon, Albuquerque
 G Mrs. George Doolittle, Albuquerque
 G Mrs. Irby Downey, Albuquerque
 G Mrs. Earl G. Gould, Albuquerque
 G Mrs. Dennis Hoilman, Albuquerque
 G Mrs. Edward T. Johnson, Sante Fe
 G Mr. Frank V. Kalich, Albuquerque
 E Mrs. Earl C. Kauffman, Sante Fe
 G Mrs. Alfred D. Kilbey, Albuquerque
 G Mrs. James M. Kuykendall, Taos
 G Mrs. Bernard Lowenstein, Albuquerque
 G Mrs. W. M. McGrath, Albuquerque
 G Mrs. W. H. McKinley, Roswell
 H Mrs. Earl S. Mount, Albuquerque
 G Mrs. F. C. O'Kelly, Albuquerque
 G Mr. Howard Shockey, Albuquerque
 G Mrs. James R. Yocum, Albuquerque

REGION 24

Mississippi

G RVP, Mrs. A. C. Hopton, Jackson
 G Miss Evelyn Barbour, Vicksburg
 G Mr. Halbert Cunningham, Crawford
 E Mrs. Everette Hughes, Jackson
 E Mrs. Hugh Johnston, Vicksburg
 E Mrs. M. M. LeBaugh, Columbus
 E Mrs. Frank McCann, Jackson
 G Mrs. A. K. Primos, Jackson
 G Mr. W. D. Shewmake, Greenwood
 E Mrs. W. D. Shewmake, Greenwood
 S Mrs. H. P. Tipton, Horn Lake

Alabama

E Mr. Joseph L. Askins, Brownsboro
 G Mrs. Ernest Batson, Florence
 G Mrs. Paul F. Boon, Birmingham
 G Mrs. B. W. Branumn, Huntsville
 A Mrs. E. G. Brown, Palmerdale
 E Mrs. A. H. Brush, Birmingham
 G Mr. B. Howard Camp, Albertville
 E Mrs. B. Howard Camp, Albertville
 G Mrs. Lester Fanning, Huntsville
 G Mrs. Ruth T. Fletcher, Gadsden
 G Dr. L. E. Fraser, Florence
 G Mrs. Floyd Garner, Albertville
 A Mr. T. A. Gilliam, Huntsville
 G Dr. Marvin J. Hall, Huntsville
 G Mrs. H. C. Hendricks, Birmingham
 G Mrs. A. Russell Jolly Kernachan, Sheffield
 G Mrs. A. I. Kuykendall, Guntersville
 G Mr. Joe M. Langdon, Birmingham
 G Mrs. Joe M. Langdon, Birmingham
 E Dr. Richard D. Mansfield-Jones, Pleasant Grove
 E Mrs. Richard D. Mansfield-Jones, Pleasant Grove
 G Mrs. E. P. Miles, Birmingham
 G Miss Nan Elizabeth Miles, Birmingham
 G Mrs. Perry H. Morton, Gladsden
 G Mrs. E. H. Phillips, Birmingham
 G Mr. W. H. Ponder, Gladsden
 G Mr. J. M. Ross, Huntsville
 G Mr. Donald R. Saxton, Huntsville
 E Miss Sarah Scruggs, Guntersville
 G Mr. Herbert L. Sherrod, Tuscumbia
 G Mrs. R. P. Van Valkenburgh, Huntsville
 E Mrs. Mel Wallace, Birmingham
 G Mrs. Giles P. Wetherill, Huntsville

JUDGES IN OTHER COUNTRIES

England

G Mr. L. W. Brummitt, Oxon
 H Mr. H. Castle Fletcher, London
 H Mr. H. Senior Fothergill, Kent
 G Mr. H. R. Jeffs, Morden, Surrey
 G Mr. Lawrence W. Neel, Surrey

Italy

G Dr. Gian Luigi Sani, Florence
 G Dr. Kenneth K. Kidd, Pavia

BULLETIN DEADLINES

We apologize for this Bulletin being late, but there has been no help for it. We have tried to circumvent the growingly slower second-class mail delivery by shifting the date of mailing from the fifth of the month to the first, but to date we have not yet been able to make it.

To go into the mail on the first, we have to follow the following rigorous time table. For example, for the January 1971 issue:

1. Half the copy should have been at the printer on November 15.
2. The other half should have been at the printer on November 22.

To our dismay, we had only fifty percent of the copy on our desk by Thanksgiving Day, and the last of the copy arrived on December 10.

Ordinarily, we can circumvent failure to get material on time by going to our files, where we keep a number of good articles we have been unable to use in previous issues, but for the January 1971 *Bulletin*, with its special plicata material, this was not possible. This is not critical of anyone. Our writers are busy people. And many of the articles had to be rewritten or amended as viewpoints developed.

We mention this, first, because it bothers your editor not to be able to meet deadlines; and second, because these deadlines affect receipt of advertising copy for the April Bulletin. WE SHOULD HAVE ALL ADVERTISING COPY by February 15 for the April *Bulletin*. We always can get a little extra in after that, but not too much. A lot depends on how the Bulletin finally works out in 16-page signatures; sometimes we can get very little more in; sometimes we have most of a sixteen page signature available. That determination can be made only by the editor, so if you are late, send the ad in anyway, and we will see if we have the space.

One thing about ads: Do not try to crowd the copy in too small a space.

And one more thing about advertising. It will help considerably on time and meeting deadlines if you send the advertising copy directly to the editor, and then send the ad order and the financial arrangements to the secretary at St. Louis.

REGISTRATIONS AND INTRODUCTIONS

We are finding some difficulty in passing on some of the irises which would be eligible for AIS awards except that proof of introduction has not been filed with the Registrar. This is prerequisite for eligibility in the awards system. Be sure that the registrar receives a copy of your catalog or sales list before October 1 of each year.

Many introducers now find it advantageous to introduce on the pages of the Bulletin, and we automatically pick up these Bulletin introductions and post them as introductions. From an economics point of view, when one considers printing and postage and time spent in mailing, it is much cheaper to use Bulletin introductions to reach thousands of AIS members. If you wish, we can furnish you with extra copies of your ad. Write the editor for prices.

It also would be well for each who introduce (or register) to check the annual booklet of *Registrations and Introductions* to see that data is complete. We do want records to be accurate, and we will count it as a favor if you check the registrations you receive and the annual *Registrations and Introductions* for any errors. We cheerfully will correct any errors.

We do want to say that reports on introductions are getting better each year, but there still are enough missing reports that it bothers us.

And also: Be sure your irises are registered before introduction. An iris introduced but not registered is not eligible for awards, nor for show awards.

Thank you for your kindness. Thanks to your efforts, things seem a little better each year.

J. Arthur Nelson
Editor-Registrar.

THE NEW JERSEY STATE FAIR REBLOOMING IRIS SHOW



New Jersey Rebloomer Show
(Photo by Frank Jones)

Ole K. Meldgaard of Region 19 put on a one-man iris show at the New Jersey State Fair in Trenton in September. Not quite a one-man show because, although he planned it and set it up, many of the stalks came from the garden of Mr. and Mrs. Frank Jones of Trenton.

The theme of the show was that the rainbow colors of the iris brighten the gray days of fall. There was a big gray poster with a bright rainbow on it and the tiered support for the bright flowers was covered with gray. At either side were little blue spruces to frame the array of show stalks.

Visitors to the exhibit picked up leaflets inviting them to join the American Iris Society and Ole gave away 1100 booklets on *Growing and Hybridizing Bearded Irises*. Drawing stalks from both his own garden and the Jones garden, he was able to keep the display fresh and attractive throughout the week-long fair. The show was awarded first prize in its class and was decorated with a big multi-colored rosette.

THE AUSTRALIAN JONESES MEET THE REGION 19 JONESES

Bob Jones, immediate past president of the Victoria Region of the A.I.S. (which, of course, stands for Australian Iris Society) visited Region 19 early in September. With him were his wife, Olive, and their Australian neighbors, the Matthews. They made a pilgrimage to the Presby Memorial Iris Garden where, with Mrs. Barbara Walther, they observed the process of renewal of one of the beds.

Where could they see irises in bloom in September? In the garden of Frank and Emma Jones, of course. Their reblooming season now starts in June, overlapping the last of the spring bloom, and they usually bring an iris in bloom to the Region's Annual Dinner in November.

The rebloomers in the Jones garden were in all stages of bloom. On one plant there might be everything from tight buds, deep in the leaves, to fully opened flowers. One of the Jones seedlings had so many closely-spaced buds that Bob Jones said it was the first iris he had ever seen that looked like a gladiola. Frank plans to throw that one out because it would be objectionably bunched when in bloom. However, another seedling with a large number of better-placed buds and blooms was his J-69-x12 which came from (FALL PRIMROSE x FLAME KISS) X AUTUMN ORANGELITE.

For Bob and Olive Jones, the sight of these fall bloomers was a prologue to their own season which was soon to follow. The last two weeks in October are the weeks of peak iris bloom in Victoria.

1971 MEETING SOCIETY FOR LOUISIANA IRISES

Marie Caillet

The small group of flower lovers that met and organized the Society for Louisiana Irises thirty years ago hoped for a permanent organization, but also wondered how long interest in their rather isolated native iris might last or how far reaching this interest might extend. Fortunately, through the efforts of these charter members and hundreds of interested persons in later years, the group has expanded, their native iris has been greatly improved, and the information about them has spread to all parts of the world.

For the 30th time, the Society will hold its annual meeting and iris show in Lafayette, Louisiana. A Judges training school will be held during this same weekend to allow members to take part in both, as was done last year. Activities begin on Friday afternoon, April 16, with the first session of the judges training, followed by a Dutch treat supper and slide showing that evening. Plans for Saturday, in addition to the regular business meeting, iris show, and awards banquet, will include an exhibition training session using the show entries. This arrangement provides an opportunity for AIS members, including judges and apprentice judges from other Regions, to see the recent developments in the Louisiana natives and to better understand the considerations in judging them. Region 10 feels they are making a unique contribution to the AIS judges training program by this concentration on the Louisianas. Actual garden judging at the C. W. Army garden will be included in the Friday afternoon training session, with several outstanding hybridizers and garden judges assisting. There were 24 enrolled for the judges training course held last spring, including many from Texas and Arkansas. It is hoped that these same members and many new ones will be in Lafayette April 16 - 18, 1971.

The 1970-71 Yearbook published by the Society for Louisiana Irises contains several articles on judging the Louisianas, plus numerous color pages of recent introductions. The cost of the yearbook is \$2.00, or will be sent free to new members. (Membership is \$3.00 a year.) For yearbook, membership, or meeting information, write to Mrs. Ira S. Nelson, Secretary, Box 175 U.S.L. Station, Lafayette, Louisiana 70501.

DWARF IRIS SOCIETY AWARDS — 1970

Walter Welch Medal	SHAMROCK FAN (Mahood)
Blue Ribbon Award	APRIL ACCENT (Tutmark)
Awards of Special Merit	APRIL ACCENT (A. Brown)
BLUE BERET (Roberts)	FRENCH WINE (Roberts)
LEMON PUFF (Roberts)	PATSY JO (Kavan)

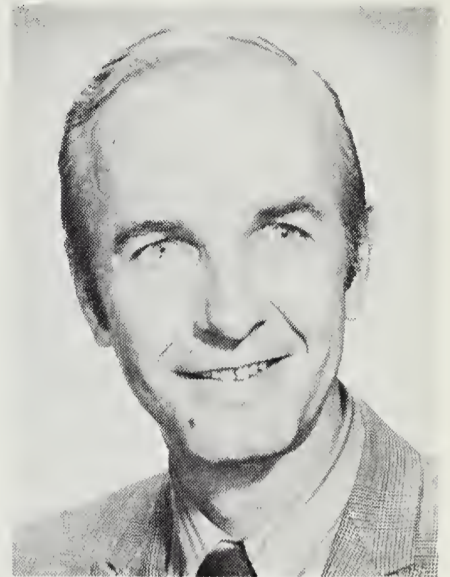
NEW BOARD MEMBERS AND RVPS



Glenn Hanson
New Board Member



Hoyt Smith
Region 22



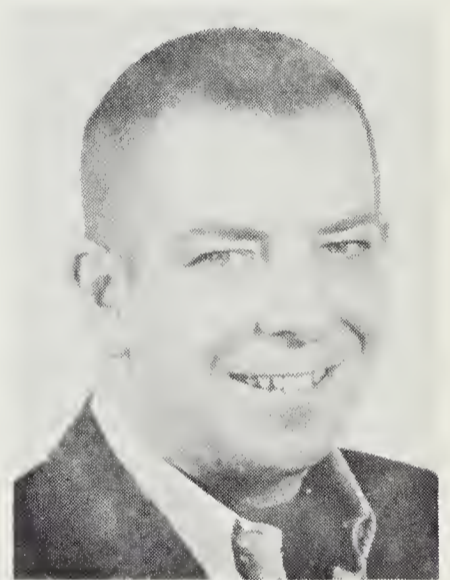
Harold Stahly
Region 6



W. G. Sindt
Region 8



Marilyn Holloway
Region 14



Herbert Spence
Region 12



J. Donald Puett
Region 18



Mrs. Theodore Shiner
Region 3



Dr. Carl Jorgensen
Region 20

There are two pictures of incoming RVPS that will appear in April *Bulletin*.

AIS YOUTH



Warren Dupree of Louisiana and his educational exhibit.

THE YOUTH PROGRAM

Ann B. Dasch

Ruskin once said, "Youth is the period of building up in habits, and hopes, and faiths." What better reason do we of AIS have to unite in promoting a strong program for young people? As of this writing, 27 youngsters have enrolled in the Youth program in Region 4. I understand that this marks us as one of the more active areas, youth-wise, but means that only about 6% of our members are in the under-19 category. Are many Regions completely overlooking the values of the Youth Program? As regional chairman of this committee, I am enthusiastic about the merits of sharing AIS with youngsters and try to communicate my concern to other grown-ups.

Primary in the development of the Youth Program is a belief in its value. A number of adults have been enthusiastic enough to wish to share the pleasures of our organization with young people; others have simply not bothered. Such apathy is shocking in view of the current world-wide concern with ecology. Pollution of our natural resources is dangerous to the very survival of our planet; every blade of grass has its importance in our ecological balance. It follows, then, that anything adults can do to encourage future generations to appreciate and grow plants—whether irises or soybeans—is vital. As members of a horticultural organization, can we do less?

Some clubs offer the advanced ages of their adult members as an excuse for not recruiting youngsters. It is easy to agree that folks in the 25 to 50 age bracket, with growing families, have more and easier contact with youngsters. Nevertheless, is any adult totally out of touch with the under-19 set? Consider

the young people who are naturally part of any social, neighborhood, or religious group—much less grandchildren, nephews, nieces and other family members. Those small humans that we see everywhere are seldom midgets! They are often very delightful young people, and anyone who doesn't number a few among his circle of friends is missing a lovely slice of life.

As adults, we can smugly complain about the obnoxious children, avidly spotlighted by the press, who riot, murder and “turn on” with drugs. Youngsters have a “silent majority” too, including many who would be enthusiastic and constructive members of the AIS if they were aware of its existence. In our gadget-filled modern age, youngsters, as well as adults, have more leisure time—hours that could be used well in the garden, learning to appreciate nature. We can help them to rediscover the old-fashioned meaning of “grass.”

Once we have found our young members, we are obligated to offer them ACTION. Youngsters will seldom be satisfied to simply read our publications and catalogues. They must be encouraged to take part in local adult functions and to learn that “experts” are not unapproachable with problems and questions. Where enough youngsters join, they can organize an auxiliary to the local club and enjoy activities geared to their own interests and abilities, while also learning about iris-ing by taking part in adult programs.

In Region 4, we have two such groups, and have found this an excellent way to amplify our program. In West Virginia, some youngsters from a junior high school's honor society caught “iris fever” from Youth Committee member, Maidel Van Horn. A teacher from the school, Elaine Rawlings, also joined and became their advisor. Wauneta Wine and I work with ten Baltimore area children and are both delighted with their cooperation, despite an age range of 6 to 15. Both of these groups merit an entire article to adequately describe their activities. We are proud of our youngsters all over Region 4. They have undertaken innumerable educational, social and service projects—planting community iris gardens, hybridizing, games, slide programs, helping the grown-ups with meetings, garden tours, shows, etc. Youngsters like to help, and they can take part in every phase of irisdom. Any Region—any club—that does not enroll Youth Members and does not tap the reservoir of young talents is squandering a valuable natural resource!

BASICS FOR BEGINNING FLOWER ARRANGERS

Larry L. Harder

An iris arrangement can be likened to a picture, but instead of using paint, you use irises and other plant material.

You probably first ask, “What is he talking about “other plant material”?” “Other plant material” is the use of complementary plant leaves, stems, even flowers that add to the overall beauty of a flower arrangement. Instead of just using iris foliage in your arrangement (even though this is very lovely), the curly new leaf from a rhubarb plant might be used as a basis for your arrangement (with your iris flowers predominating over the whole). You may wish to use in your arrangement sprays of columbine, or white daisies. Leaves from hosta or small flowers from other plants and shrubs are “other plant material” used by many arrangers.

Since your irises and other growing plant materials are alive — and for your arrangement, you want them to stay that way as long as possible, you will need to condition your material. For a flower arrangement that is wilting isn't very pretty and there is something about it that makes everyone feel sad.

So, before starting your arrangement, you want to be sure your flowers are in the best possible condition. The more water there is in the stems, the longer they will last. So pick whatever you are going to use at least several hours beforehand — overnight is better — and put your material — flowers arrangers speak of the flowers and plants they use as “material” — in deep water right up to the necks of the flowers. The proper way to pick them is to do it in the early morning or late evening when the sun isn't too hot and the flowers or material are very fresh. Use a very sharp knife to make a clean cut, and cut at a slant so that the end of the stem won't heal over and act like a cork to prevent water from entering the stem. If you are picking lilacs or other shrubs with woody stems, make several slits in each stem, or pound it with a hammer, so that they will absorb more water. All this “conditioning” of flowers is very important, because in a flower show the judges won't give a ribbon to an arrangement that has wilted flowers.

Now is about the time you need to know about the “mechanics” of flower arranging, for you are ready to put your iris arrangement together. “Mechanics” means things to use to help make your irises and other materials stay where you want them.

If you use a shallow bowl, a needleholder is what you would use. A needleholder is a flat piece of metal with metal pins sticking up. Most of us have problems fastening the needle holder down in our bowls. A small rope of florist's clay placed between the needleholder and the bowl can be used, or you can press the roll of clay around the edge of the holder and fasten it securely to the bowl in this fashion. Be sure to have both the needleholder and the container very dry, or else you will not be able to get the clay to stick.

If you are working with a tall container and your flowers won't stay in the middle, it can be filled with the Oasis type blocks available at florist shops or you can cut a bunch of evergreens and fill your vase, cutting them off even with the top of your container.

Be sure never to let your mechanics show, unless it adds to the beauty of your arrangement. Most arrangers use leaves, pebbles or stones to hide the needlepoint holders.

When starting your arrangement, you should be aware of some of the basic rules — balance, proportion and design — which govern all flower arrangements.

“Balance”. This word is a primary rule in making your arrangement. Usually it is easy to see that your arrangement is balanced right — if it doesn't have it, the arrangement will look as if it were about to tip over. Larger flowers should be more towards the center of your arrangement; smaller ones or buds on the outside edges.

Color enters into “balance” too. Darker colored flowers appear heavier; light colored ones, lighter. So, place your darker flowers near the center of your arrangement, and the lighter ones toward the outside or top.

“Proportion”. Between your container and your flowers good proportion must be shown. In using a tall container, your flowers should be at least one and a half times as tall as the container. In using a shallow container, the arrangement should be at least one and a half times as tall as the container is wide.

“Design”. This third rule sets the type of arrangement you are going to make. Sometimes your flowers themselves will help to design your arrangement. Curved stems and round flowers may make you think of a circle or crescent and you will make your arrangement in this shape. Tall spiky flowers or foliage might suggest a fan or triangle type of arrangement.

You will soon learn that each arrangement must have a “focal point”, a spot in the arrangement where all of the lines of your arrangement comes together.

Color of your flowers has another feature that can not be overlooked. In making your arrangement, you will find some colors blend together; other combinations makes one shudder. There is no set rule concerning color, but some colors look well together. Yellow, orange and brown would be complementary colors, or you could use strong contrasting colors like yellow and purple. Just so the overall picture is pleasant to look at after you have finished your arrangement.

Once started on the fascinating aspect of your iris hobby, you will become more adept in the use of the flowers and foliage you gather together to make your arrangements. Before long, blue ribbons will be given for your work and some day that dream will come true. That rosette “Best in Show” will be yours.

SCIENTIFIC COMMITTEE

Dr. Raymond C. Allen

The major problem of the Scientific Committee has been to find substitutes for DDT as a control for Iris Borer. A survey was made of various experiment stations, departments of Horticulture in several colleges and a few commercial firms and reputable individuals. While there was no general agreement on the best material several suggested that Sevin could be substituted. Unfortunately no extensive research has as yet been carried on under controlled conditions to determine its effectiveness.

Dr. H. C. Mason of the U.S.D.A. at Beltsville, Maryland, reviewed the control of Iris borers and recommended the following steps:

1. Carefully inspect and destroy all borers in the rhizomes at transplanting time.
2. Thoroughly clean up iris beds during the dormant season before spring growth starts. This helps to destroy overwintering eggs laid, dead foliage or other debris.
3. Spray iris clumps and bed surface weekly from about the time growth starts for a period of 4 or 5 weeks with Lindane to kill young borers before they enter the plants. (Lindane is an effective substitute for DDT and from the latest reports will not be withdrawn from the trade for the time being at least.)
4. Apply drenching sprays of Dimethoate to the iris rhizomes and fans after flowering to kill older larvae that are feeding in the lower part of the plants or have entered the rhizomes. Dimethoate sprays act by contact or fumigation through openings to the feeding channels of the larvae.

Other problems that the Committee is concerned about are Bacterial Soft Rot, Bacterial Leaf Blight, Botrytis Rot, Scorch and Bloom-out. Attempts are being made to find individuals engaged in research where a modest grant from the American Iris Society's Research Fund would be helpful in conducting

research on any of these problems. The development of practical garden control measures is being emphasized.

Members of the Scientific Committee are: Richard Mansfield-Jones, Flower Haven Nursery, Pleasant Grove, Alabama 35127; Edwin Rundlett, 1 Fairview Avenue, Staten Island, New York 10314; Dr. John H. Weiler, Fresno State College, Fresno, California 93703; Raymond C. Allen, (Chairman), Kingwood Center, Mansfield, Ohio 44903.

SPECIES

As we go to press we received the American Iris Society Seed Exchange List, with an offering of some 230 different kinds of species and near species seeds. Those of you who have the yen to try the species or something native or unusual should write for the list to

Mrs. John Hardy, 296 Hunsaker Lane, Eugene, Oregon 97402

We are sure that many of our members will find the growing of these natives and species a refreshing and stimulating experience.

STARBRIGHT IRIS GLASSWARE
EXCLUSIVELY DESIGNED BY AN IRISARIAN FOR IRISARIANS!

806—Juice, 5 oz.	Set of 4	\$ 6.95
809—Old Fashioned, 7 oz.	Set of 4	6.95
131—Wine, 4½ oz.	Set of 4	6.95
131—Sherbert /Champagne, 7 oz.	Set of 4	6.95
131—Goblet, 10 oz.	Set of 4	6.95
131—Iced Teas, 12 oz.	Set of 4	6.95
51—Mug, 15 oz.	Set of 4	7.98
132—Vase, 10"	Set of 2	5.98
133—Sandwich Tray, 12"	Each	6.98
1028—Hurrican Lamps, 11½"	Set of 2	9.98
814—Tumbler, 12 oz.	Set of 4	3.95
300—Pitcher, 96 oz. (ice lip)	Each	8.95
300—Pitcher, 32 oz. (ice lip)	Each	6.95



STARBRIGHT IRIS PATTERN: The ideal gift for birthday, anniversary and every occasion. Hand-made, hand-cut and designed in West Virginia factory. Please allow ample time for shipment from factory. Please include 10% of total order for postage and handling.

STARBRIGHT IRIS GLASSWARE

Charles C. Jack

622 Locust Avenue

Weston, West Virginia 26452

1969 CHECK LIST

As of December 1, most of the corrections to the 1969 Check List have been completed, and we expect that by January 1, the entire book will start the process of photographing the camera ready pages, the printing, the assembling, the folding, and the binding. Unless there are unforeseen delays, we expect the 1969 Check List to be off the press and bound by April 1.

Those who get their orders in before April 1 can take advantage of the pre-publication price of \$5.00. After April 1, the price will be \$6.50.

Send your orders to:

Clifford W. Benson, Executive Secretary

American Iris Society

2315 Tower Grove Avenue

St. Louis, Mo. 63110

1971 Registrations and Introductions

We expect the 1971 Registrations and Introductions for 1970 to be off the press by February 1. As was the case last year, this is a sales item, and you may order your copy from the executive secretary for \$1.00.

There is a business reason for this policy. The Board feels that it is wise in a period of rising prices and limited funds to expend funds where they do the greatest good to the greatest number of our members. It feels that from 85 to 95% of our members are only superficially interested in this publication, and since the difference between printing a limited number and one for every member amounts to some \$1,300, it is acting on the belief that these funds should be conserved for items that will have a greater membership impact. In addition, the Board felt that the registration and introduction, as well as some other phases of the AIS program, should be self supporting, or nearly so.

For those of you who are interested in the booklet, send \$1.00 to:

Clifford W. Benson, Secretary

American Iris Society

2315 Tower Grove Avenue

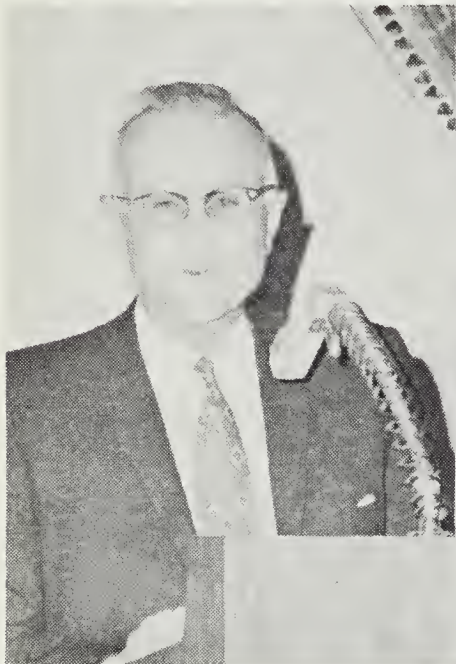
St. Louis, Mo. 63110

REGION 24 FALL CONVENTION

by Don Saxton

The fall meeting of Region 24, held in conjunction with the AIS Board meeting at Huntsville, Ala., was a resounding success. A total of 86 irisarians (including AIS Directors, Committee Chairmen, and wives) participated in the three days of activities. Other distinguished guests included Mr. Charles W. Army, RVP Region 10, and Mr. and Mrs. Randy Waltman (Mississippi State University — B.Y. Morrison Iris Research Project).

THE PRESIDENTIAL TEAM AT HUNTSVILLE



Mr. William T. Bledsoe
President



Dr. Hugo Wall
First Vice President



Dr. Clarke Cosgrove
Second Vice President

(Pictures by Dick Von Valkenburgh)

The hospitality committee (and helpers) met AIS Directors at the jetport on Friday and transported them to the Russell Erskine Hotel, with sight seeing tours for the early arrivals. An informal covered dish supper gave both National and Regional folks a chance to get acquainted. A dozen scrumptious cakes, provided by the Guntersville Club, made dessert the finishing touch to a good beginning. After the meal, the AIS Board retired to their meeting while Regional members were treated with a presentation of Louisiana iris slides by Mr. Charles Army and 1967-1970 AIS convention slides by Rosabelle Van Valkenburgh and Don Saxton.

A feature of the regional meeting which deserves special plaudits was the array of exhibits assembled around the meeting room. A dozen exhibits, ranging from water colors to ceramics and from seed pods to space vehicles, were on display. Most had been created for the educational exhibits of previous iris shows around the Region.

Saturday morning activities began bright and early at 7:00 a.m. for the Regional officers. Mrs. Hopton conducted the Executive Board session in preparation for the Regional business meeting later in the day. An Accredited Judges School was conducted from 8:00 a.m. until noon by Mrs. Evelyn Boon of Birmingham, Ala., and Mrs. Evelyn Minnick of Kansas City, Mo. Both Evelyns were teaching their first iris judges school and both performed like veteran instructors. Thirty-three judges and potential judges participated in the school

which was highly commended by Mrs. Hugo Wall, wife of the AIS Chairman of Judges Training. The AIS Board joined with Region members again for the luncheon.

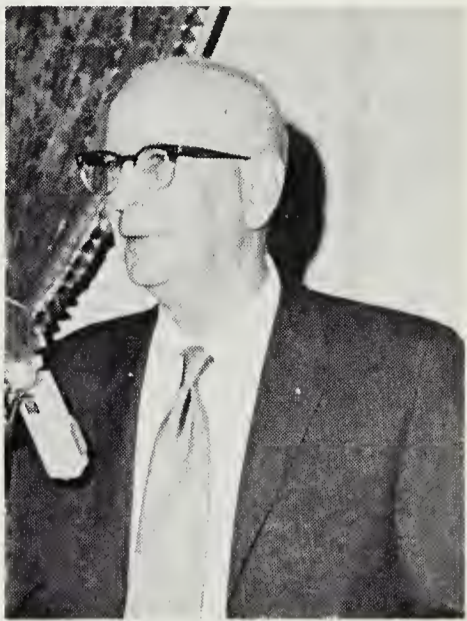
COMMITTEE MEMBERS AT HUNTSVILLE



Mr. Larry Harder
Membership



Mr. Earl Browder
Administration



Mr. C. Robert Minnick
Test Gardens

(Photographs by Dick Van Valkenburgh)

The Region business meeting was held immediately after lunch with RVP Mrs. Hopton presiding. A definitive slide presentation and report was given by Mr. Randy Waltman on the research work being conducted by Mississippi State University under the sponsorship of the B.Y. Morrison Fund. Printed copies of the report were distributed to attendees and are available from Dr. C. O. Box, Dep't. of Horticulture, 232 Dorman Hall, P.O. Box Drawer T, Mississippi State

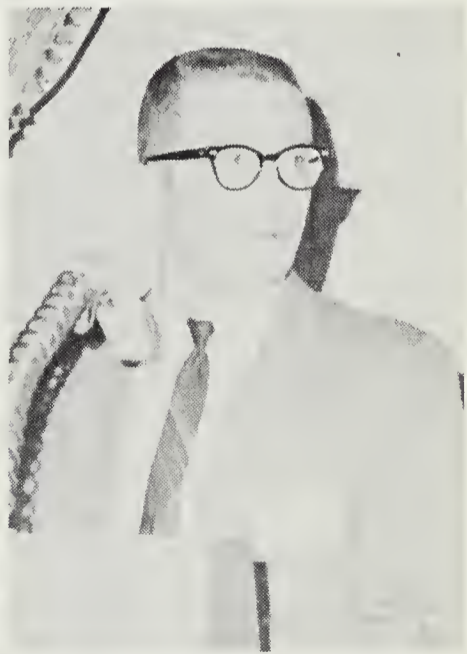
AT THE HUNTSVILLE MEETING



Mrs. A. C. Hopton
Region 24 RVP



Mr. Jay C. Ackerman
AIS Treasurer



Mr. Donald R. Saxton
Master of Ceremonies

(Pictures by Dick Van Valkenburgh)

Universtiy, State College, Mississippi 39762, for \$1.00 each. The Region decided to initiate a memorial to the late Charlotte Sawyer, past-RVP, through both the AIS Foundation and the B.Y. Morrison Fund. Contributions should be sent to the Region 24 Treasurer: Mr. W.D. Shewmake, 611 E. Claiborne St., Greenwood, Miss., 38930.

The afternoon was concludud with a choice of tours. One group visited the Alabama Space and Rocket Center Museum while another group toured the antebellum home of Mrs. Carl T. Jones.

The stellar event of the meeting was the Saturday evening banquet. Ass't RVP Don Saxton was master of ceremonies. President Bledsoe introduced the AIS Directors, Committee Chairmen, and wives. Each talked briefly about his AIS job and expressed appreciation for the "Southern Hospitality" they had experienced. All of the current AIS Directors, with the exception of the Past Presidents (Immediate Past President Hubert A. Fischer did attend), and all but two committee chairmen were in attendance. Many Region members had a once-in-a-lifetime opportunity to see, hear, and meet these illustrious, dedicated leaders of our Iris Society.

Orchid corsages were presented to the two lady Board members and also to the wives of the Board members who attended the fall board meeting.

Following the banquet, the formal meeting was adjourned and all were invited to a special slide showing. Ira Wood brought a coordinated slide and tape recorded program from Harry Kuesel (RVP Region 2) on the 1970 New York convention. This was an excellent documentary of the Golden Jubilee and should be preserved for eventual placement in the future permanent quarters of the AIS Foundation.

The AIS Board completed its business at about 11:00 a.m. Sunday. Local club members congregated informally at the hotel to transport early departures to the jetport. About ten of the AIS Board members decided to stay over until Monday so they could have time to see Huntsville. The whole group went to lunch together and then toured the Alabama Space and Rocket Center and Redstone Arsenal.



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FLIGHT LINES

Peggy Burke Grey, Editor

HOW TO JOIN A ROBIN

All AIS members are urged to take advantage of our main line of membership communication. Select the topic that interests you and send your application directly to the chairman. It will help us to place you if you will tell us something of your garden, your experience with irises, and about yourself. Nearly 300 robins in 25 different topics are available.

Irises in General (great for Beginners) Mrs. L. S. Legner, Box 225, White Fence Acres, Rochester, Ill. 62563

Tall Bearded: Miss Leah Ralls, 300 East Fifth St., Edmond, Okla. 73034

International Robins: Miss Jean Ralls, 300 East Fifth St., Edmond, Oka. 73034

Hybridizing Robins (Advanced, Average, Beginner): Dolores Hoburg, RD 3, Cedar Run Road, Allison Park, Pa. 15101

Smaller Bearded Irises (includes Medians in General, Median Hybridizing, special rounds for MDB, SDB, MTB, BB, and Aril-medians). Mr. Albert Ellis, 19 McClure Ave., Brantford, Ontario Canada

Aril-Arilbred Irises: Mrs. Meredith Christlieb, Rt. 1, Severy, Kansas

Artisti Division (Arts-Crafts, Designer-Arrangers, Antiques-Artifacts Cillecting): Mrs. Merrill Johnson, 2275 Kensington Ave., Salt Lake City, Utah 84108

Beardless Irises (Spuria, Siberian, Japanese, Species & Natives, Japanese, Louisiana) Mrs. Alan Reid, 17225 McKenzie Hwy., Rte #2, Springfield, Oregon 97477

Regional Robins: Your Region Robin Rep or Mrs. Hoyt Smith, 138 Ridge Rd., Little Rock, Ark. 72207

Reblooming Irises: Edwin Rundlett, 1 Fairview Ave., Staten Island, N. Y. 10314

CONVENTION '71 WICHITA ROBIN PROGRAM EVENTS

Robin headquarters will be in the Pioneer Room on the Radisson Mezzanine, right across from the main convention registration area. Sign the robin registry and pick up your special name tag. Plan to attend the Robin Program Reception following the Welcome Dinner on Wednesday night.

EXTEND THE IRIS SEASON! MAKE THIS AN IRIS WINTER!

Join a Robin and share your iris ideas, your solution to garden problems, your plans for the next bloom season, get ideas what to buy and where to find the best bargains. Meet and get to know iris people all over the United States or in foreign countries. In the "down under" countries of Australia, New Zealand and South Africa the iris season is just getting in full swing. Learn how your favorite iris performs for others.

What you can learn is as varied as the people who fly in the Robins and what

you know may help someone far away or as near as your adjoining State.

Flying with a group of iris enthusiasts makes you feel you really belong to the big wonderful family of gardeners that is the American Iris Society. To belong to anything you have to participate and Robin membership is the easy and most rewarding participation.

There are Robins to fit every interest from Fragrance to Hybridizing; Iris in General, Tall Bearded, Dwarfs, Medians, Arils, Siberians, Spurias, Japanese Louisianas, Species and Natives, Horned and Spooned, Rebloomers. If your interest isn't listed ask about it . . . one might be set up for you and others who also share it.

When applying for Robin membership tell something of your garden, your experience with irises and about yourself. This information helps to place you with the most congenial group.

SOME MISSING LINES

Don't blame the absence of several issues of *Flight Lines* on J. Arthur, or presume something untoward is happening to our Robin Program! Your *Fl* editor got caught missing deadlines while chasing around the country showing some horses.

WHERE TO APPLY FOR ROBINS

Everyone please note: A roster of Robin Chairmen appears in this issue, and will be included in each future issue. If you want to join a robin, write directly to the chairman who is in charge of a particular division that interests you. (For a time, after becoming Robin Program Chairman, we arranged for all applications for all Robins to come to the RP Chairman. This was while some major revisions of the Program were in progress.) From time to time there may be changes in the persons in charge of the various robin divisions, so be sure to use the very latest *Bulletin* listing for the current chairmen's addresses.

Some of the Changes . . .

We are sorry to report that ill health and the necessity to limit active participation has found us losing Lillian and Collie Terrell in the Robin Program. Almost from the very first, Lillian and Collie have served AIS members long and well, giving so much of their time and devotion. Great people, those Terrells, and we all owe them a whopping big vote of thanks for all they have done through these years, for the program and for hybridizing novices.

We also are sad that Herbie Graves has been too ill to be an active robineer, and send every wish for a return to good health. Herbie's survey of our International Robins some time back enabled us to develop a much better program for those interested in international robin activity.

A Word of Thanks

We'd like to add a special word of appreciation to all the chairmen, robin directors and patient members who kept the birds flying amid a great loud silence from the RP chairman during the summer and fall while those horses of ours racked up a few championships. We now have a plethora of pretty silver urns, bowls and other receptacles to hold our irises come spring. "Sterling Silver" and "Burgundy Bay", our working hunter champs, and "Abu Manakha", our Arabian park horse grand champion, salute you all! (Editor's note: We are glad to have you back, Peggy. We hear the horse won more points than any other horse in America.)

From Homer Metcalf, Montana: If any of you have both *I. tridentata* and *I. virginica*, I'd suggest their being crossed to try for an alternative explanation of the origin of *I. versicolor*, which might have a different allopolyploid origin than that

suggested.

Again from Homer: The most interesting species seen here this spring was a plant traveling under the name of *I. furcata*, a dwarf bearded with falcate leaves and purple flowers. Supposedly from the USSR.

From Jean Witt, Washington: New this year was *I. wattii*. About the first of May it come into bloom, a great sheaf of frilly pale lavender flowers only a little smaller than those of *I. tectorum*. The stem had seven branches and at least 35 flowers (about four in each position). It bloomed for over a month, each flower lasting about three days. It has increased like mad.

From Barbara Whitehouse, Region 1: There is a wonderful feeling of comradeship between the members of a Robin. Witness Regional Robin 2, composed of members from Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut. We grow all kinds of irises under all possible conditions, from mountain to shore, but we all share an undying devotion to the *Iridaceae*. This flight seemed to focus on soil condition. Tony Goulet (Mass.), faced with heavy gray clay soil, dug down to a depth of 14", sifted the soil and mixed equal parts of soil, peat and sand, and added much bone meal. Before adding this mixture to the hole, he added Bovung to the bottom of the hole.

From Richard Sloan, Ill.: BARCELONA (O. Brown), rhizome planted late gave a well-branched stalk with 12 blooms in harmonizing colors. ASPEN COUNTRY (McClure-arilbred), an easy grower, rippling intense yellow with dark signal around beard. RICHWOODS (Schafer), Won the Region 9 Test Garden award; nice blend of tan, yellow, and lavender, with very ruffled petals. Nice stalk, good branching.

Again from Homer Metcalf: Dr. Sherm Preece is collecting forms of *I. ochroleuca* from established clones in pastures in the Flathead area of Montana. There is quite a bit of interest in species in Missoula.

From Bill Gunther, Calif.: The Iris Species show in San Diego was a great success . . . Dr. Clarke Cosgrove, AIS Exhibitions chairman, was enthusiastic in announcing that this is the first iris species show in history to receive AIS accreditation.

From Beverly Dopke, Mich.: I didn't know aphids were such a problem until I attended a lecture by an entomologist on virus and scorch. He said that he had proof that the puncture holes made by aphids were the source of entrance for virus and leaf spot. Aphids don't like irises, but they will puncture the leaf and sample the sap. Then they leave the plant. This is why we don't see them on irises very often, but they have done the damage.

From Edie Ogburn, N.C.: We are having a long spell of wet weather, but so far I have not seen a single case of rot. Just before it started raining I scattered a goodly amount of land plaster over my iris beds, and I wonder if that had some bearing on preventing rot.

From Dick Sloan, Ill.: Does anyone know of any liquid forms of fungicide for leaf spot? All I have found are powders and they frequently clog the nozzle in spite of my attempts to get them well shaken before use.

From Anne Allen, Md.: I find that holding irises in a bed of damp peat moss when the weather is very hot and dry stimulates root growth and gets them off to a good start.

From Clarke Cosgrove, Calif.: When I finally got around to prepare an acid bed according to instructions of Melrose Garden's catalogue, I have had fine success with Siberians. Seven of the nine new Siberians bloomed the first year and I had as many bloomstalks in the small planting as I had by combining the

last few years “struggle” with the Siberians.

Spuria Robin 3. There is an interesting discussion of the possible sources of tetraploidy in spurias chemically inducing tetraploidy, and effect of octoploidy, in this Robin reported by Edith Cleaves. We think *Bulletin* readers will be interested in a short and to-the-point article on these matters.

Vay B. Sargo, Ark.: A friend sent me copies of Organic Gardening for reference, and so now you will see me planting chives for aphids, mint for flies, tansy for ants, crotalaria for nematodes and marigolds everywhere.

Edwin F. Jaeger, Utah: I really believe chives will drive aphids away, as I planted some around six of my rose bushes and since then I have not had to spray them.

Lorena Reid, Ore.: I do not use extra nitrogen for the mulch. I use extra N actually *only* when the plants (by slacking of green color, before it gets severe, shows need of it, as it leaches out of the soil quite rapidly and would be wasted if not needed. The 5-10-10 (or similar formula for ordinary garden use) usually has plenty of N for good iris growth . . . You easily can add too much nitrogen . . . which makes for lush growth which is less hardy, and more prone to injury and rot.

Ed Hubbard, Va.: Mrs. Allen Brown's '70 introduction LOVABLE YOU should go on everyone's “watch list.” It is a self somewhere between a peach and apricot color, with all good qualities.

Again from Beverly Dopke: You have wondered how to get your “babies” national recognition. If you could have seen the “experts” at the national convention, you would have noted how little they looked at name tags before they looked at the flowers. They were drawn to the outstanding ones by overall appearance, branching, bud placement, texture, color, conformation. Get yours to where they can be seen by as many people as possible. And again from Lorena Reid: Send them around the country where irises are loved. The national recognition will come.

Emily Nelson, Calif.: Schacht yellow pumila — *I. schactii* — should be given a workout to bring out its potential as a parent with tall bearded irises. We were first impressed with it when LACE CAPER (Chantilly X Schacht) proved to be a “pinkmaker.” Then this winter Orpha Salzman wrote she had bloomed a number of near-plic lilliputs from it, and felt sure it would give plics in other combinations. Moreover, it is one of the parents of Dottie Dennis' TWICE BLESSED.

Ila Nunn, Texas: Have had success in planting seeds in plastic baggies, which contain about 2” of vermiculite, dampened. One *I. kerneriana* (seed 8 years old) germinated in three weeks, and grew tall enough to be potted in five weeks from germination. *I. laevigata* (6 years old) seed also transplanted five weeks from germination. Also from Ila: Went to the annual meeting of the Society for Louisiana Irises. The seedlings as usual were exciting and made the show. John Neugebauer again brought entries, and Marvin Granger still is working with doubling. Jules Patin seems to be getting better with his each year. Charles Arny has a new sales list out.

Roy Davidson, Wash.: Watch for the newer smaller Japanese cultivars.

Sarah Highley, Ohio: Pumila and aphylla clones do very well here. I dig chunks of them and force them as house plants . . . The Louisianas do well here; they are under the downspot from the eaves, but are holding their own, and more.

Again from Jean Witt: *I. missouriensis*, to my mind, is greatly underappreciated. It's tough enough for almost any climate, and I think if we can combine the Julesburg, Colo. type (with 11 flowers to a stem) with say the Pullman, Washington, type, (with the flaring ruffled form) and the Black Hills type (with the colorful signals), we would eventually come up with a really spectacular garden plant in the blue/orchid/purple range.

Again from Homer Metcalf: I have been impressed by the garden merit of longipetalae irises from Colorado, particularly the southern mountain region. There and in northern Arizona are good places to look for interesting things. I wouldn't exclude northern New Mexico, either, particularly around Eagle Nest and other areas that receive drainage from Mt. Wheeler. Although I have not done it, there should be some interest in crossing branched forms from Arizona with the red leaf-based forms from along the east slope of the Cascades. I've never seen a *missouriensis* with a combination of red leaf-bases and branched scapes.

1970 MEDIAN IRIS SOCIETY SYMPOSIUM

SDB

1. CHERRY GARDEN
2. BLUEBERRY MUFFINS
3. GINGERBREAD MAN
4. REGARDS
5. SKY BABY
6. CIRCLETTE
MARINKA
7. PAMELA ANN
8. JOY BRINGER
9. ZING
10. BRASSIE
SHINE BOY
11. EYE SHADOW
12. ORANGE CAPER
RED HEART

BB

1. TULARE
2. BLUE MILLER
3. FRENCHI
4. CRYSTAL BAY
5. BOTANY BAY
6. ELLEN Q
7. CARNIVAL GLASS
8. TIMMIE TOO
9. BAYADERE
10. PEBBLES
11. BROWN RINGS

IB

1. JUNE PROM
2. ANNIKINS
3. ARCTIC FANCY
4. LIME RIPPLES
5. DRUMMER BOY
6. LILLIPINKPUT
7. LIGHT CAVALRY
8. MAROON CAPER
9. ARABI TREASURE
CUTIE
10. DILLY DILLY
11. SUGAR
12. MOONCHILD

MTB

1. PEWEE
2. TOPSY TURVY
3. DAINY DAMSEL
ICE FAIRY
4. DAINY DANCER
5. BUENITA
6. WIDGET
7. DESERT QUAIL
TOM TIT
8. MOCKINGBIRD
9. DAYSTAR
SHRINKING VIOLET
10. BROWN CROWN
11. WARBLER

HYBRIDIZERS MEDAL TO BRIZENDINES

With the 1971 convention to be in Wichita, it seemed to be the logical time to recognize the signal accomplishments of Roy and Mildred Brizendine.

Roy has been active in the aril world, and his SYRIAN MOON and SYRIAN DAWN promise to be stars in the arilbred world. But he has been active in the TB world, with MILLIONAIRE, GOLDENAIRE, JET BLACK and PINK TORCH, to mention only a few.

Mildred has been active in the median field, with the SDB, IB and aril-med groups in particular. She has a long list of worthy introductions in these classes, and ZING alone (We witnessed its debut into the iris world and the stir it brought) would qualify her for this award, and in addition, among others, there is LITTLE REB, SHINE BOY, JOY BRINGER.



DISTINGUISHED SERVICE MEDALS TO VALLETTE, NELSON

Wilma Vallette was awarded the Distinguished Service Medal of the American Iris Society for her considerable services. The roots of the Round Robin program are found in her early Robin letters, and these letters later made up the basis for her book, "Iris Culture and Hybridizing for Everyone," a book that proved so popular it has been sold out long since. The many services she has rendered to irises and the American Iris Society over a long span of years have earned for her this honor of the Distinguished Service Medal.

The Board of Directors also voted to J. Arthur Nelson the DSM. Mr. Nelson finished his term as an elected Board member in June 1970, and has served or is serving as Exhibition chairman, Awards chairman, Registrar, and Editor of the *Bulletin*. He had served as Second Vice President and First Vice President.



IN MEMORIAM

Mrs. Reuben (Charlotte) Sawyer

On Thursday, October 1, Mrs. Charlotte Sawyer passed away at her home in Memphis, after a lengthy illness.

A garden club worker for thirty years, Mrs. Sawyer was president of the Memphis and Shelby County Council of Garden Clubs, and former president of the Merry Weeders Garden Club and the Memphis Area Iris Society. She was a former board member of the American Daffodil Society, horticulture chairman of the Tennessee Federation of Garden Clubs, and former regional director for the American Daffodil Society and the American Iris Society. As RVP, she instigated the B.Y. Morrison Research project being carried on at Mississippi State University, and was chairman of fund raising.

Her almost mystic love for flowers won her many awards, including the most coveted of all daffodil awards — the Carey E. Quinn Medal - for growing twenty-four perfect daffodil varieties.



CENTRAL MICHIGAN IRIS SOCIETY: Dave Niswonger, Speaker, and S. J. Burke, Chairman. (*Photograph courtesy Crook's Studio, Flint, Mich.*)



Reta Harp and Barbara Walther in Presby Garden. (*Photo by Maynard Harp*)

IRIS COVERS IN COLOR

Duplicates of covers of January and April 1968 *Bulletin* covers. Ideal for covers for show schedules, yearbooks, iris programs, place mats for special iris occasions. To clear the stocktwo cents each

American Iris Society 2315 Tower Grove Ave. St. Louis, Mo. 63110

From the Editor's Desk

Readers will note some change in format in this issue of the Bulletin. Experimentally, we are cooperating with the printer in producing this Bulletin by the offset process, in the hope that we can ultimately reduce printing costs, and get even better printing, especially of photographs. The type size this time is also an experiment.

The delay of almost three years in producing the plicata issue gave some of our members with a scientific turn of mind a chance to make many crosses and enter into many studies. The progress of unlocking the secrets of Nature is slow, and for those who want the answers neatly packaged into answers, the results may be disappointing. But we are dealing still with the unknown, and each has postulated his theories. As to be expected, even the very good scientists these people are have come up with different theories in some respects, and only time and experimentation will determine the ultimate truth. We hope that these theories of genetics, so very fascinating if studied carefully and with such widespread implications, will generate among more of our members a continuing search for answers. Thus is progress made, and the search for truth can be the most exhilarating of hobbies.

There are many iris gardens which can be on the route to and from the Wichita convention, and two who have sent special invitations are Arnold Schliefert of Murdock, Nebr., and Mrs. Clara B. Fox, 3206 Lincoln Way, Ames, Iowa.

Elsewhere in this Bulletin there is a report of the Board of Directors' and the Region 24 meetings, but we cannot refrain from expressing from the Board a somewhat official "Thank You" for Southern Hospitality at its finest with which the visitors were greeted. We hardly had set down our bags preparatory to registering in the hotel when we were greeted by our hosts, and from there on there was an unflagging attention to the needs and wishes of the Board and committee members attending. The smorgasbord the first evening not only was an example of fine culinary art, but it afforded us the opportunity to get acquainted with our Region 24 hosts. It was my good fortune to sit with Dr. Marvin Hall, and the conversation developed the fact that we had attended the same college and had won the same alumni awards. Again the noon lunch the next day gave other opportunities to visit with our hosts, and this time we renewed acquaintance with Mrs. E. P. and Nan Elizabeth Miles. In the meantime the wives attended the judging school, and came away with glowing reports of the instructional abilities of Evelyn Boon and Evelyn Minnick.

The banquet was a delightful and friendly affair, with every attention to detail, and presided over by Don Saxton. It is seldom I have attended an official banquet where the affair was so perfectly organized and moved with such clockwork. The evening had scarcely started before it was over.

After the banquet, we attended the showing of slides accompanied by a tape of oral comments, and we stand in admiration of the Region 2 people who put this together. Elsewhere in this Bulletin is an ad of this visual-audio program, and it will make a delightful program for any local club.

After the program of slides, I had the opportunity to visit somewhat extensively with Dr. Richard Mansfield-Jones, and I was delightfully impressed

with the breadth and depth of his background. He should make a fine addition to the Scientific Committee.

To conclude the evening, we looked at the iris projects around the meeting room — projects which in the main had been used as educational exhibits at iris shows. They were attractive and put together with care, and with an eye toward the educational impact of attracting gardeners to become interested in irises. We especially noted the well-drawn posters by Mrs. Floyd Garner on culture, hybridizing, varieties and point scales; the exhibit of growing irises in the garden, including fertilizer, pest control, soil composition and the very good exhibit of root growth as exhibited in a glass case by Betty Johnson and Dr. James McLaren; the very very good arrangements by Betty Johnson; and the very attractive educational exhibit of iris topics in ceramic by Mr. and Mrs. J. M. Ross.

At a meeting which the Board could not attend, Charles Army showed slides of Louisiana irises and Rosabelle Van Valkenburg showed slides of the New York convention.

After the meetings were over our local hosts took the visitors to the Space Museum, and our hostess gave to us a special bonus of a tour through the city with some of its antebellum homes and through some of the breathtaking views of the countryside.

We were kept so busy it was only after the meeting was over that we had a chance to talk for a few minutes to Mrs. A. C. Hopton, RVP of Region 24.

To Chairman T. A. Gilliam and Co-chairman Donald Saxton, and to all of your helpers, we offer a salute of admiration and gratitude.

We drove to Minneapolis, and here at the annual dinner of the Minneapolis Iris Society, we met so many Minnesota irisarians with whom we have corresponded over the years. It was a gala event graciously done, and presided over by Julius Wadekamper with the touch of a *master* master of ceremonies. The group added to our pleasure by voting us an honorary membership and presenting to us the *Silver Iris* spoon which is traditional with this society.

We were treated so royally that we could not deny the invitation to stay over for another day. Carol Lankow and Zula Hanson piloted us in seeing several of the Minnesota gardens, and to everyone's regret, we did not get to see some of the gardens on the route plan — there just were too many interesting things everywhere. Mary Duwall also accompanied us on part of the trip.

The first stop was at the Frances Ehle garden, where we just could not overlook the poplar, the waterfall, the wide variety of plants, shrubs and trees, and a truly grand collection of the newer irises — TB, BB and IB. And we spent a lot of time in the Ehle basement looking at the amazing furniture refinishing, beautiful pieces of furniture which Frances has collected from various sources and is restoring.

The next garden we visited was that of Maybelle Wright, of BB fame. The Wrights live on a pleasant three and one-half acres — one is tempted to say estate — bounded by a creek on the back, and the oak trees were beautiful. We were interested in the hot beds and her BB crosses, especially those seeking to achieve better small reds, and in the floral art under construction in the family room. The conversation over coffee in the Wright kitchen was lively and pleasant.

Then on to the G. B. Gables, where Mrs. Gable had lunch ready for the entourage. I had been told that Mr. Gable is a tough competitor in a show and that he has grown a large number of irises in the same modest space for many years. I was interested in his method, and he told me he dug deep and placed a

shovelful of compost in the bottom of each hole. He had just finished packing the last order of the season, for an Alabama irisarian. I was interested in his garden markers, a truly fine line in a wide variety of sizes, and his Terraclor, a fungicide which many iris growers swear by, and in some new chemical and biological controls which he is considering adding to his line.

Time speeds by with so many interesting things and such pleasant company, and we had to get to the Hanson garden and to a dinner date. We found one and one-half acres in the Hanson garden, largely devoted to small irises of the MDB and median classes. Glenn and Zula say that business in these little ones has been very good, and we were intrigued with the fall blooming VELVET TOY, which was putting on quite a show on this October afternoon. In the house we saw more iris artifacts and iris art objects than we have seen assembled under any other roof.

Off to a delightful dinner and the pleasant company of Julius Wadekapmer and Glenn and Zula Hanson, and the dinner conversation sparkled until we had to be off to the new and beautiful Tyrone Guthrie Theatre, where in the company of Julius and the W. G. Sindts, we were treated to an excellent performance of a play by the Nobel award-winning Solzhenitsyn.

Regretfully we left the friendly and dynamic people of Minneapolis, but only after making plans to try to order the calendar around to attend their iris show next spring.

AT THE GOLDEN JUBILEE CONVENTION



Amos Sherrard with
AMOS SHERRARD in
Catherine Smith garden



The Hoyt Smiths
of
Arkansas



Charles Nearpass
and
D. Steve Varner

(Pictures by Steve Varner)

There is something in a name. We always liked the name NINEVEH, perhaps because an inspired high school history teacher instilled a life long interest in the history and the mythology of the East. It always seemed to me that the red-violet robes of Keith Keppel's creation would be the appropriate color for the garb of royalty of this ancient city. When one sees Alta Brown's OLIVE

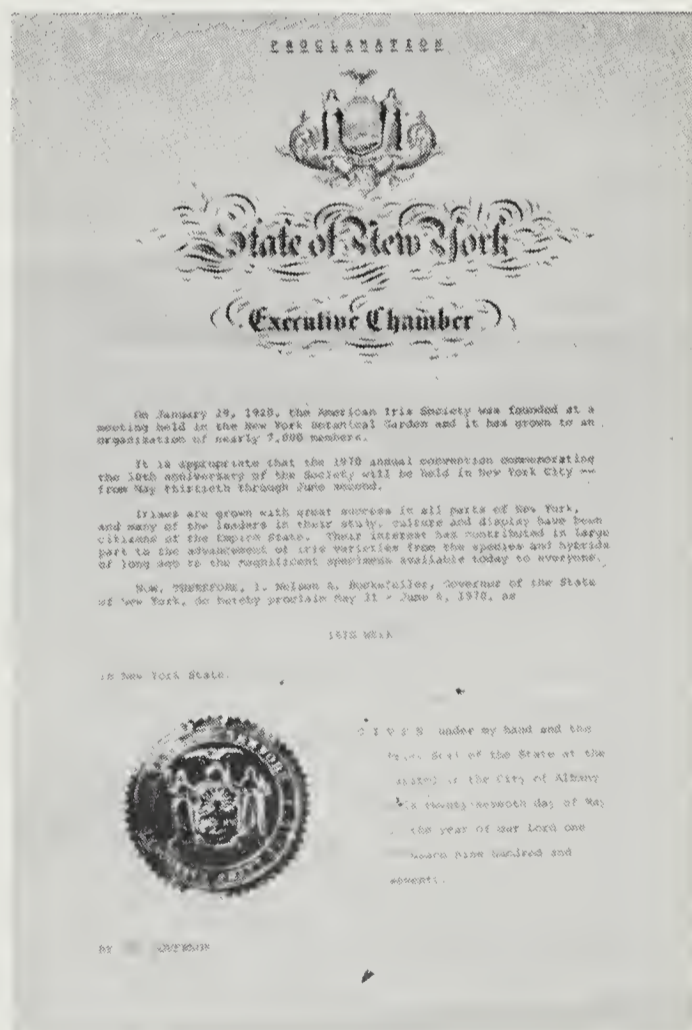
COCKTAIL, he almost says, "That's it!" The names ROYAL GOLD and GOLDEN PLUNDER seem to fit exactly these yellow creations of Melba Hamblen and Orville Fay. TAR River from Thelma Carrington fits, when one knows the history. Legend has it that during the Civil War the Union troops were pursuing soldiers of the Confederacy down this river, until the Southern troops poured barrels and barrels of tar into the river, and thus came the name Tar River. And NEBRASKA NAVY just fits Allan Ensminger's superb iris.

One of the appealing and intriguing ideas for a program is briefed in an ad appearing elsewhere in this issue. This slide program and accompanying tape, put together by people who know their business, shows the high spots of the New York convention, and should be a pleasant program in revival of memories for those who attended the memorable GOLDEN JUBILEE CONVENTION, and should be of real interest to those who were unable to be present for this convention.

Californians and those visiting in California for the winter will be interested to know that the first iris show of 1971 (in the United States) will be held on Saturday, January 23 in the Lecture Room of the Los Angeles County and State Arboretum, 301 North Baldwin Avenue, Arcadia, and holds over for Sunday from 10:00 a.m. to 3:00 p.m. The meeting of the Southern California Iris Society will begin at 1:00 p.m. on Saturday the 23rd.



William Thomson sdlg. KALIFA GULNARE X TATAI PASHA. It has good branching.



In honor of the founding of the American Iris Society, Governor Nelson A. Rockefeller proclaimed the week of the Golden Jubilee Convention as IRIS WEEK in New York.

While we are on the subject of New York, we have a guilty feeling that the Bulletin erred in reporting on two New York gardens. This is supported by letters we have received, and by checking our notes. It is, as any of you know in taking notes at a convention, easy to mix notes on gardens, and we are sure that no intentional hurt was meant to anyone. There were so many things to see at Bill Thomson's delightful garden that we never did get to see everything, but our impression was that the condition spoken of was in another garden. And we think that the reference to the Viette Nursery was to the commercial planting, which we and a few others went out to see. But the guest irises were planted for maximum viewing between wide grassy paths.

Gordon Blackwell, who was the official photographer for the Golden Jubilee convention, generously gave his convention pictures to the AIS Historian, Helen McCaughey. Which reminds us that his should be the credit for the picture of Dr. and Mrs. John Wister and Barbara Walther on page 27 of the July Bulletin, and that credit lines belonging to him on pages 66, 67 and 68 of the October Bulletin somehow never got there. Gordon is a superb photographer and an equally good writer, and we always are glad to have his material.

The selection of covers in color is never entirely the editor's choice. In order to make color pictures of a number of irises economically possible, we have to select a number of transparencies, from which the processor selects those that will work together in a "gang" of six, or of any number more than one iris.

From the Bulletin staff to all of you: A Happy, Healthful and Prosperous New Year, and may your 1971 bloom season be the best ever.



At New York

William Thomson Garden

Viette Nursery

Photos by Blackwell

The MDB variety LEMON PUFF, Judges Choice in 1970, is erroneously listed on page 60 of the October Bulletin as a Warburton introduction. It is a Dunbar introduction.

W. G. Sindt, the new RVP of Region VIII, came up with a remarkable idea, that of sending local club members who are not AIS members a membership to AIS instead of flowers. They started this idea in the Twin Cities Iris Society.

COLOR CLASSIFICATION 1971

The work on the 1971 Color Classification booklet has started, and we expect it to be off the press by March 1 or before.

The book this year will have a color chart as the front cover, with pale, light full and dark for the seven colors. In addition, the makeup is revised to make it easier to use by those who use it in shows and gardens.

The price is 60 cents per copy, ten or more copies fifty cents apiece.

Until April 1, order from J. Arthur Nelson, 3131 North 58th St., Omaha, Nebr. 68104.

After April 1, order from The American Iris Society, Clifford W. Benson, Secretary, 2315 Tower Grove Ave., St. Louis, Mo. 63110. WE THINK THIS WILL BE A VASTLY IMPROVED AND MORE USEFUL COLOR CLASSIFICATION.

WICHITA 1971



Display Advertising Directory

AIS Check List 1971.....	79	Hyponex.....	95
AIS 1970 Registrations Booklet....	79	McClure	58
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ANNOUNCEMENTS

REGISTRATIONS—INTRODUCTIONS

Registrations \$3.00 each.

Introductions: Free recording. Be sure that your catalogue or printed list of introductions is filed with the registrar and that each is marked plainly. Irises not recorded as introduced are not eligible for awards higher than HC. Irises advertised in the October 1970 and the January, April and July 1971 AIS Bulletins are automatically recorded as 1971 introductions. Mail to J. Arthur Nelson, 3131 North 58th St., Omaha, Nebraska 68104.

BULLETIN ADVERTISING RATES

COMMERCIAL DIRECTORY (listings in alphabetical order)

Rates per four issues—no discounts

Single space (one inch—not to exceed six lines).....\$12.50

Double space (not to exceed 12 lines).....\$20.00

DISPLAY ADVERTISING

One-inch, single column\$ 9.00

Two-inch..... 13.00

One-quarter page..... 18.00

One-third page..... 24.00

One-half page\$32.50

Two-thirds page..... 42.50

Three-fourths page 47.50

One page 60.00

Note: Display advertising rates are per single issue. Cost of engravings extra.

Write the editor for cost of ad in color pictures.

Discount of 20% for each succeeding issue during the calendar year.

Send advertising copy and checks to:

THE AMERICAN IRIS SOCIETY

2315 Tower Grove Ave., St. Louis, Missouri 63110

IMPORTANT

To Those With Guest Irises In The Wichita Convention Gardens

Your named and registered irises which have not won an HM award are eligible to go on the ballot for FAVORITE GUEST IRISES. Please send the information to below listed address.

MISSOURI AND KANSAS HYBRIDIZERS. Your registered and introduced irises are eligible to appear on the ballot for THE PRESIDENT'S CUP. If they are guests in the Wichita convention gardens, please send the names to below listed address.

J. ARTHUR NELSON, Awards Chairman

3131 North 58th St.

Omaha, Nebr. 68104

ATTENTION AFFILIATES

All affiliates are entitled to a free showing of AIS slides once a year. Be sure to give Mr. Schreiner thirty days' notice, and order the slides in the name of the affiliated club, giving the name of the president of the club.

All affiliates are entitled to one silver medal and one bronze medal, free of charge for their show. Order these at the time the report is sent to the Exhibition Chairman.

If there is a change in the name of the president of the club, be sure to notify Mrs. McCaughey, Mr. Benson and the editor of the *Bulletin* at once, so that the proper name and address can appear in the *Bulletin*, and that the *Bulletin* can be mailed to the proper address.

PHOTOSTAT COPIES OF REGISTRATIONS AND BULLETIN ARTICLES

To those who have inquired: We have on file most of the original registration applications since 1960. These often contain more complete information than the necessarily cryptic published registration information. For those seeking to trace and identify irises, we can make copies of the original application for twenty-five cents. Likewise, we can reproduce any *Bulletin* article for twenty-five cents a page. Send money and requests to the Omaha office.

NEW MEMBERSHIP LIST IN APRIL

A new membership list will go out with the April Bulletin. It will be limited to members in good standing as of February 1, 1971. Since, for economy reasons, the copy will be typed as camera ready copy, it will be impossible to list any members not in good standing as of February 1, 1971.

Please be sure to indicate any change of address, and if you are a judge, please indicate that fact also.

All renewal dues are to be sent to Clifford W. Benson, Secretary, American Iris Society, St. Louis, Missouri 63110.

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

* * * * *

For that special iris program

—Set of iris slides of the AIS Golden Jubilee Meeting in New York, 1970. See famous gardens . . . renowned iris personalities, and many of the very newest irises on display. Enjoy at your gathering a showing of the most recently written about and commented upon irises. Attend this famous meeting in spirit . . . via this fine collection of slides of convention highlights.

—Set of the newer tall bearded award winning irises. Most recent Award of Merit and Honorable Mention winners as well as Dykes Medalist and contenders—also other top favorites and selected garden scenes.

—Set of the ever popular, less expensive, fine bearded irises that have stood the test of time and grace any garden with their beauty and excellence. Pleasant garden scenes; some interesting iris arrangements.

—Set of various bearded species along with special hybrids of these, including miniature and standard dwarf, intermediate, aril, table and border varieties—a fascinating set.

—Set of various beardless iris species and their endless hybrids, including a wide range as Crested, Spuria, Siberian, Louisiana, Western natives, Japanese, in unending variety—highly individual.

—Set of irises of all types, in an unending collection, including the charming bulbous irises, multi-faceted bearded irises—beardless kinds in pleasurable variety. Many kinds of irises—varied, distinct and original.

* * * * *

Requests for slides should be made well in advance for proper scheduling, preferably 30 days or longer. Include a second date if possible. Give the exact date desired so that slides can be sent insured airmail. They are to be returned in the same manner. The rental fee is \$5.00, payable in advance, for each set of 100 slides. Make checks to the American Iris Society and mail with your requests to:

*Robert Schreiner, Chairman, Slides Committee,
3785 Quinaby Rd., NE (R. 2), Salem, Oregon 97303*

IMPORTANT

If you have moved, or plan to change address, or if your Bulletin address, including zip code, is wrong, notify

Clifford W. Benson, Secretary
American Iris Society

2315 Tower Grove Ave.

St. Louis, Mo. 63110

Also if you are a judge, please note that, so we can prepare the extra address stencil.

AIS MEMBERSHIP RATES

Annual	\$ 7.50	Sustaining	\$ 15.00
Triennial	18.75	Research	37.50
Family	9.00	Life	150.00
Family Triennial	22.50	Family Life	187.50
Youth member, with others of family as members			1.50
Youth member, with no others of family as members			2.50

SECTION DUES

Send dues, making check payable to the American Iris Society, to Clifford W. Benson, Secretary, American Iris Society, 2315 Tower Grove Avenue, St. Louis, Missouri 63110.

	<i>Japanese</i>	<i>Median</i>	<i>Rebloomer</i>	<i>Siberian</i>	<i>Spuria</i>
Single Annual	\$2.00	\$2.00	\$ 3.00	\$1.00	\$2.00
Single Triennial	5.00	5.00	7.50	3.00	5.00
Family Annual	2.50	2.50	4.00	2.00	2.50
Family Triennial	6.00	6.00	10.00	6.00	6.00
Annual Supporting	3.00	3.00	5.00	—	3.00

IMPORTANT: Section dues, if paid through AIS, **MUST** be for the **same duration** as your AIS dues. AIS **FAMILY** member desiring **SINGLE** Section membership, **PLEASE** indicate which person is applying for Section membership.

MINUTES OF DIRECTORS' MEETING

Russel Erskine Hotel, Huntsville, Alabama

November 7-8, 1970

The meeting was called to order at 8:30 A.M. by President Bledsoe with the following in attendance: First Vice President Wall, Second Vice President Cosgrove, Immediate Past President Fischer, Directors Allen, Browder, Hamblen, Hanson, Jacoby, McCaughey, Scharff, Schreiner, Wood, Bulletin Editor Nelson, Treasurer Ackerman and Executive Secretary Benson. Absent: none. Mr. Charles W. Army, RVP Region 10, Mrs. A. C. Hopton, RVP Region 24, Larry Harder, Chairman, Youth Committee, and Robert Minnick, Chairman, Regional Test Gardens, attended the sessions.

The four nominees for the Board of Directors whose names were submitted to the AIS Membership (page 26, July, 1970, Bulletin) in accordance with the bylaws, were declared elected for three-year terms. They are: Mrs. J. R. Hamblen, Mr. Glenn F. Hanson, Mr. Jake Scharff and Dr. Hugo Wall.

The following official motions were duly made, seconded and passed by the Board.

Approval of the minutes of the Board meeting in New York, May 29-30-31, 1970, published in the July, 1970, Bulletin.

Treasurer Jay C. Ackerman presented a report on the financial condition of the Society as audited by Harris, Reems and Ambrose, certified public accountants, Lansing, Michigan. The report was accepted with sincere thanks and appreciation and publication in the Bulletin was authorized.

Executive Secretary Benson reported on the present membership of the Society by Regions and States and reported that the Society had 6,092 members November 1, as compared with 6,904 one year ago. Region 18 was reported as being the largest region in membership. Region 4, second; Region 6, third; Region 15, fourth; Region 17, fifth; Region 14, sixth; Region 7 seventh; Region 22, eighth; Region 2, ninth and Region 24, tenth.

The reports by chairmen of the following committees were approved with appreciation of the valuable service rendered the Society:

Affiliates & Sections	Mrs. Helen McCaughey
Awards	Dr. J. Arthur Nelson
Convention Liaison	Mr. Jake H. Scharff
Exhibitions	Dr. Clarke Cosgrove
Garden Judges	Dr. Hugo Wall
Historian	Mrs. Helen McCaughey
Honorary Medals	Mr. Hubert A. Fischer
Judge's Training	Dr. Hugo Wall
Membership	Mr. Earl T. Browder
Publications/Bulletin	Dr. J. Arthur Nelson
Registrations	Mrs. Melba Hamblen
RVP Counsellor	Dr. Clarke Cosgrove
Scientific	Dr. Raymond C. Allen
Slides	Mr. Robert Schreiner
Regional Test Gardens	Mr. Robert Minnick
Youth	Mr. Larry L. Harder

It was determined that the host region has the responsibility of conducting all activities at a national convention. This is not the decision of the Board of Directors.

The roster of judges as discussed by Dr. Hugo Wall, was approved as submitted and master lists will be dispatched to each RVP. The following agreement was also discussed and approved by the Board of Directors:

1. One official list of AIS Judges
 - A. Revised only upon authorization by Chairman of Judges Committee.
 - B. Copy of list to Secretary, Editor, President, RVP, Chairman of Show Committee (2nd Vice President).
2. Chairman of Judges Committee.
 - A. Will provide Secretary and Editor with several copies of official Judges List.
 - B. Will promptly inform Secretary and Editor of changes in Judges (and addresses).
3. Secretary will revise his cards and labels to correspond.
 - A. Secretary will send mailing tapes to Chairman and Editor upon completion.
 - B. Secretary will revise list as authorized by Chairman of Judges Committee so that it will be current.
 - C. Secretary will promptly report any judge address changes to Chairman of Judges Committee.
4. Editor.
 - A. Will use official judges list for printing in Bulletin.
 - B. Will notify Chairman of Judges Committee of any changes he notes.
 - C. Inform Chairman of Judges Committee who fails to cast Awards ballot. (Use list and check off as ballots come in).

It was voted that the authority to recommend senior and honorary judges be transferred from the awards chairman to the judge's training chairman.

Dr. Nelson was authorized to proceed with the revision of the color classification booklet for 1971; the receipts, thereto, to be credited to the publications committee.

"It was voted to appoint a special committee, headed by Dr. Cosgrove, to study and evaluate the AIS By-Laws for the purpose of recommending revisions needed to make the By-Laws responsive to current operational requirements. It was suggested that this study should include suggestions and criticisms sent to Dr. Cosgrove regarding the 1970 election of AIS Directors. It is expected that the committee will discuss its findings and make recommendations to the Board of Directors at its meeting in Wichita next spring."

It was voted that the AIS Publications Committee be authorized to proceed with the publication of the handbook which has been prepared by Ira and Betty Wood, with all matters of policy to be determined by that committee. The Board of Directors extended to Ira and Betty Wood its sincere appreciation for the amount of work accomplished on the publication.

It was voted that the AIS continue to list the yearly supplementary registrations and introductions as a sales item.

It was authorized and approved to print 1,200 copies of the 1969 Check List.

It was voted to change the price of the Bulletins as follows:

Bulletin to AIS members	\$1.50
Bulletin to nonmembers	\$2.00

In recognition of the many years she aided her husband in his activities in the American Iris Society that brought him the Distinguished Service Medal, and her continuing efforts in behalf of the Society since his death, it was voted to authorize a Complimentary Membership to Mrs. Claude O'Brien, Greensboro, North Carolina.

The American Iris Society recommends the foundation of the American Iris Society Foundation and endorses the original Board of Trustees of that foundation consisting of the following individuals:

- (Dr. L. F. Randolph)
- (Dr. J. Arthur Nelson) one year term
- (Mr. Jay C. Ackerman)

- (Mr. Wm. T. Bledsoe)
- (Mr. Earl T. Browder) two year term
- (Mr. Jesse E. Wills)

- (Dr. Hugo Wall)
- (Mr. Cliff W. Benson) three year term
- (Mr. Guy Rogers)

"It was voted that the Declaration of Trust for the American Iris Society Foundation be filed at the earliest feasible date in the State of Missouri."

It was voted to accept the budget as submitted by Mr. Ackerman with the added stipulation that the 1970 Visitors Fund amounting to \$182.11 be transferred to the Building Fund, and with the proviso that as changes occur in the budget, that the newly formed Administrative Committee be authorized to recommend to the Executive Committee the changes.

The Distinguished Service Medal was awarded to Dr. J. Arthur Nelson and Mrs. Wilma Vallette.

The Hybridizer's Medal was awarded to Mr. and Mrs. Roy Brizendine.

The following members were appointed Honorary Judges:

Dr. G. Percy Brown, Barre, Massachusetts
Mr. Walker Ferguson, Escondido, California
Mr. John Ohl, Mulvane, Kansas
Mrs. Bernice Roe, San Jose, California
Mrs. Shirley Spurr, Wakefield, Massachusetts

The following members were appointed Senior Judges:

Mrs. Adda E. Ayers, Indiana	Prof. Larry P. Mains, Pennsylvania
Miss Olive Bowman, Ohio	Mrs. W. L. Mize, Washington
Mrs. Rex P. Brown, Washington	Mrs. C. Arvid Nelson, Wyoming
Mrs. Wells E. Burton, So. Carolina	Mr. Donald L. Peterson, Georgia
Mr. Norris W. Carter, Washington	Mrs. Marjorie Roark, Oregon
Mrs. Harry L. Edwards, New York	Mr. Earl R. Roberts, Indiana
Dr. Frank B. Galyon, Tennessee	Mrs. J. D. Ruggles, Washington
Mrs. Alexia Gerberg, Washington	Mrs. N. J. Smiley, Kansas
Mrs. Marvin Hart, Montana	Mrs. Alice Stenoien, Minneapolis
Mrs. Charles Heisz, Kansas	Mrs. Frank W. Warburton, Massachusetts
Mrs. J. W. Judd, Tennessee	Mrs. Troy Westmeyer, Connecticut

Appointment of new RVPs for 1971 were made as follows:

3. Mrs. Theodore R. Shiner, 524 East 4th St., Nescopeck, Penna. 18635.
6. Mr. Harold L. Stahly, 8343 Manchester Dr., Grand Blanc, Mich. 48439.
8. Mr. W. G. Sindt, 14252 15th St., So., Stillwater, Minn. 55082.
9. Mr. E. H. T. Drake, 1325 So. Crescent Ave., Park Ridge, Ill. 60068.
12. Herbert J. Spence, 3461 Adams, Ogden, Utah 84403.
14. Mrs. Marilyn J. Holloway, 673 Acacia Avenue, Sacramento, Calif. 95815.
18. Mr. J. Donald Puett, 2305 Cleveland Avenue, Baxter Springs, Kans. 66713.
22. Mr. Hoyt T. Smith, 138 Ridge Road, Little Rock, Arkansas 72207.

The following RVPs who have served either one or two years were reappointed for 1971:

- | | |
|----------------------------------|--------------------------|
| 1. Mr. Frank E. Halleck | 15. Mr. Arthur B. Day |
| 2. Mr. Harry B. Kuesel | 16. Mr. Douglas Insleay |
| 4. Mr. Maynard E. Harp | 17. Mr. L. E. Brooks |
| 5. Mrs. Charles Laughinghouse | 19. Mrs. Ira E. Wood |
| 7. Chaplain Calvin S. Cunningham | 20. Dr. John R. Durrance |
| 10. Mr. C. W. Arny, Jr., | 21. Mr. Leo W. Framke |
| 11. Mrs. Don R. Holtz | 23. Mr. Ernest P. Wilson |
| 13. Mr. Foster M. Allen | 24. Mrs. A. C. Hopton |

It was voted to establish a new standing committee, the Administrative Committee. This committee will have surveillance of administrative aspects of the Society. It will study administrative problems and make recommendations to assure efficient and smooth administrative operations within the Society. The committee will consist of Mr. Earl T. Browder, Chairman, with Mrs. Helen McCaughey and Mr. Jake Scharff, members."

Mr. Larry L. Harder, Ponca, Nebraska, was appointed chairman of the Membership Committee.

Mrs. Ann Dasch, Timonium, Maryland, was appointed chairman of the Youth Committee.

Mr. Perry Parrish, Oklahoma City, Oklahoma, was appointed chairman of the Publicity Committee.

It was voted to accept Region 15's invitation to hold the 1975 national convention in Southern California.

It was voted to accept the invitation of the Oklahoma Iris Society to hold the fall meeting of the Board of Directors in Oklahoma City, November 6-7, 1971.

The following schedule of annual conventions was reviewed:

1971—Wichita, Kansas	May 12th through May 15th
1972—Salem, Oregon	May 24th through May 26th
1973—Philadelphia, Penna.	Dates undetermined
1974—Akron, Ohio	May 29th through June 1st
1975—Southern California	Dates undetermined

The special awards revision committee—Mr. Robert Schreiner, Mrs. James R. Hamblen and Dr. J. Arthur Nelson—were instructed to continue their study of methods of voting for awards and the number of votes for each award.

The following officers were elected for the ensuing year:

President—Mr. Wm. T. Bledsoe
 First Vice President—Dr. Hugo Wall
 Second Vice President—Dr. Clarke Cosgrove
 Bulletin Editor and Registrar—Dr. J. Arthur Nelson
 Treasurer—Mr. Jay C. Ackerman
 Executive Secretary—Mr. Clifford W. Benson

A vote of thanks and deep appreciation was extended to the members of Region 24 for their thoughtful and gracious hosting provided for this meeting.

The Board meeting was adjourned at 11:00 A.M. November 8th.

CLIFFORD W. BENSON
 Executive Secretary

REPORT OF THE TREASURER For Fiscal Year Ending September 30, 1970

Current Assets

Cash in Banks

Central West End Bank, St. Louis (Transfer Acct.)	\$ 2,188.16
Central West End Bank, St. Louis (Petty Cash)	1,000.00
American Bank & Trust Co., Lansing (Admin. Acct.)	5,039.17

Total Cash in Banks \$ 8,227.33

Reserve Funds

Cash Reserve	8,408.55
Funded Life Membership Reserve	12,500.00
*Scientific & Research Account	\$11,560.45

Total Reserve Funds \$32,469.00

**Total Financial Assets \$40,696.33

Gain or (Loss) \$ 604.54

Physical Assets (Estimated)

Furniture & Equipment	\$ 1,396.00
Books, Merchandise, Checklists, Bulletins, Etc.	901.00
Exhibition Supplies	2,500.00
Color Slides	100.00
2055 — 1959 Checklists at Cost	5,035.00
2163 Judges Handbooks at Cost	1,523.00
153 Silver Com. Medals at Cost	822.00
2815 Bronze Com. Medals at Cost	1,112.00

Total Physical Assets \$13,389.00

Total Net Worth \$54,085.33

Gain or (Loss) in Net Worth \$ 5,344.54

**Committed to*

Randolph Research	\$ 872.73
B. Y. Morrison Research	500.00
Uncommitted	10,187.72

\$11,560.45

**Includes \$2205.89 Equity of Advance
 Subscribers to 1969 Check List.

STATEMENT OF RECEIPTS AND DISBURSEMENTS

Cash in Banks, October 1, 1969	\$ 5,583.11
Cash Receipts for Fiscal Year	56,882.48
Transferred from Other Accounts	8,000.00
	<hr/>
	\$70,465.59
Disbursements for Fiscal Year	\$56,277.94
Transferred to Other Accounts	
Cash Reserve	\$5,002.13
Scientific and Research	958.19
	<hr/>
	\$62,238.26
Cash in Banks as of October 1, 1970	\$ 8,227.33

STATEMENT OF RECEIPTS

<i>Memberships</i>	
Renewal Single Annual	\$16,029.81
Renewal Family Annual	5,567.00
Renewal Single Triennial	3,561.75
Renewal Family Triennial	1,522.50
New Single Annual	3,087.25
New Family Annual	519.00
New Single Triennial	562.50
New Family Triennial	165.00
Sustaining	141.35
Research	250.00
Single Life	300.00
Family Life	257.00
Affiliate	75.00
Youth	216.00
	<hr/>
	\$32,254.16
<i>Other</i>	
WEIGSK	\$ 258.70
1969 Judges Handbook	940.90
1970 Commemorative Medals	3,861.35
1969 Check List	2,221.40
Dues Collected for Sections of Society	1,858.50
Dues Collected for BIS	818.00
Books, Color Charts & Merchandise for Resale	1,153.07
Bulletins	752.48
Old Check List	187.50
Slides	325.00
Membership Tapes	284.93
Bulletin Advertising	4,540.69
Registration Committee	1,831.60
Exhibition Committee	3,253.16
Miscellaneous	7.07
Refunds	64.65
Interest Earned	1,504.22
1959 Check List	319.00
Research Gifts	272.25
Research Gifts Memphis Iris Pins	83.85
Gifts to Special Funds	90.00
	<hr/>
	\$24,628.32
<i>Total Receipts</i>	\$56,882.48
Transferred from Cash Reserve	\$ 8,000.00
Transferred from Investments	None
Total Receipts & Transfers	\$64,882.48

STATEMENT OF DISBURSEMENTS

Bulletin Expenses

Salaries	\$ 3,525.00
Printing	14,973.50
Engraving & Photography	1,529.09
Postage & Envelopes	1,226.34
Supplies	64.09
Miscellaneous	51.09
Furniture & Equipment	480.00
	<hr/>
	\$21,849.11

Secretary's Office Expense

Salaries	\$10,271.16
Postage & Shipping	1,267.08
Printing	491.20
Supplies	294.39
Telephone & Telegraph	154.13
Insurance	417.00
Refunds	85.37
Secretary Travel Expense	163.18
Books, etc. for Resale	800.90
Gifts (In Lieu of Rent)	1,000.00
Miscellaneous	160.62
Equipment Repairs & Maintenance	150.17
Advertising	1,001.56
	<hr/>
	\$16,256.76

Other Expenses

1969 Judges Handbook	\$ 2,111.60
1970 Commemorative Medals	4,168.72
Awards Account	1,286.10
Exhibition Account	2,798.11
Membership Account	158.05
Registration Account	2,025.33
Robin Account	265.33
Slides Account	88.61
RVP Account	87.40
Officers Account	344.33
Historian Account	20.00
Affiliates & Sections Committee	26.05
Payroll Taxes	715.52
Judges School Committee	53.88
BIS for American Memberships — 1968 & 1969	1,077.00
Scientific & Research Account	100.00
Dues Returned to Sections of Society	1,858.50
Constitution & Bylaws	460.35
Election Expense	511.68
1969 Check List	, 15.51
	<hr/>
	\$18,172.07

<i>Total Disbursements</i>	56,277.94
Transferred to Scientific Research	\$ 958.19
Transferred to Cash Reserve	5,002.13
	<hr/>
Total Disbursements & Transfers	\$62,238.26


Jay C. Ackerman, Treasurer

AIS PINS

To be sold for the Scientific Research Fund. Lapel type or safety catch, \$2.50 each. Order from:

Clifford Benson, Secretary
2315 Tower Grove Avenue

American Iris Society
St. Louis, Mo. 63110

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION <small>(Act of October 23, 1962: Section 4369, Title 39, United States Code)</small>		<input checked="" type="checkbox"/> Publisher: File two copies of this form with your postmaster. Postmaster: Complete verification on page 2	Form Approved, Budget Bureau No. 46-R029
1 DATE OF FILING 1 October 1970	2 TITLE OF PUBLICATION Bulletin of the American Iris Society		
3 FREQUENCY OF ISSUE Quarterly -- January, April, July & October			
4 LOCATION OF KNOWN OFFICE OF PUBLICATION <small>(Street, city, county, state, ZIP code)</small> 2315 Tower Grove Avenue, St. Louis, Missouri 63110.			
5 LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS <small>(Not printers)</small> 2315 Tower Grove Avenue, St. Louis, Missouri 63110.			
6 NAMES AND ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR			
PUBLISHER <small>(Name and address)</small> The American Iris Society, 2315 Tower Grove Avenue, St. Louis, Missouri 63110.			
EDITOR <small>(Name and address)</small> Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebraska 68104.			
MANAGING EDITOR <small>(Name and address)</small>			
7. OWNER <small>(If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)</small>			
NAME		ADDRESS	
No stockholders -- only dues paying members (horticultural)			
The American Iris Society, 2315 Tower Grove Avenue, St. Louis, Missouri 63110.			
8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES <small>(If there are none, so state)</small>			
NAME		ADDRESS	
None			
9. FOR COMPLETION BY NONPROFIT ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL RATES <small>(Section 132.122, Postal Manual)</small> <small>(Check one)</small>			
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No. 201

April 1971

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The *Bulletin* is published quarterly by The American Iris Society. Publishing office 2315 Tower Grove Blvd., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2315 Tower Grove Ave., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see sections under ANNOUNCEMENTS.

All copy due in editor's office fifty days before first of the month of publication.

The *Bulletin* is printed by The Livestock Press, Inc., 2830 "O" Street, Omaha, Nebraska 68107.

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- 13—Washington and Oregon. *Mr. Foster M. Allen*, 615 34th St., Washougal, Washington 98671.
- 14—Northern California and Nevada. *Mrs. Marilyn J. Holloway*, 673 Acacia Ave., Sacramento, Calif. 95815.
- 15—Southern California and Arizona. *Mr. Arthur B. Day*, 279 J St., Chula Vista, Calif. 92010.
- 16—Canada. *Mr. Douglas Insleay*, 2920 Berlioz Ave., Ville Brossard, Quebec, Canada.
- 17—Texas. *Mr. L. E. Brooks*, RFD 1, Iowa Park, Texas 76367.
- 18—Kansas and Missouri. *Mr. J. Donald Puett*, 2305 Cleveland Ave., Baxter Springs, Kans. 66713.
- 19—New Jersey, Staten Island, N.Y. *Mrs. Ira E. Wood*, 37 Pine Court, New Providence, N.J. 07974.
- 20—Colorado. *Dr. Carl J. C. Jorgensen*, Colorado State Uni., Fort Collins, Colo. 80521.
- 21—Iowa, Nebraska, North Dakota and South Dakota. *Mr. Leo W. Framke*, Blencoe, Iowa 51523.
- 22—Arkansas and Oklahoma. *Mr. Hoyt Smith*, 138 Ridge Road, Little Rock, Ark. 72207.
- 23—New Mexico. *Mr. Ernest P. Wilson*, 316 Cardenas, NE., Albuquerque, New Mexico 87108.
- 24—Alabama and Mississippi. *Mrs. A. C. Hopton*, 2032 East Drive, Jackson, Mississippi 39204.

FROM THE PRESIDENT'S DESK

One of our most important AIS activities, the ROBIN PROGRAM, is now under the leadership of Mrs. M. E. (Leda) Christlieb of Severy, Kansas. She replaces Mrs. Peggy Burke Grey, who announced from the beginning that she would direct the Robins only so long as it would take to find a capable replacement. This we have now done. Peg Grey has our sincere thanks for her accomplishments, and Leda Christlieb has our assurance of full cooperation and assistance in continuing a successful and meaningful Robin program.

I call your attention to two AIS publications which are now in the process of publication. I refer to the AIS HANDBOOK and to the latest revision of COLOR CLASSIFICATION.

The former, authored by Betty and Ira Wood, gives authentic guidelines for all AIS activities, and even offers detailed procedures in areas not covered by other manuals or standard operating procedures. The latter is an updating of earlier COLOR CLASSIFICATIONS by Irene and J. Arthur Nelson, and now is available. This publication is of especial value to show committees, exhibitors, and judges who are "working" iris shows. Both publications are available from the St. Louis office.

COLOR CLASSIFICATION, with some 2,900 irises color classed, and with a color chart and a black mask with peepholes, is now available. It is expected that the AIS HANDBOOK will be ready for the Wichita convention.

Our chairman of publicity, Mr. Perry L. Parrish, Oklahoma City, deserves commendation for his campaign to encourage national garden magazines to use more articles on iris growing, hybridizing, and exhibiting. He is performing on this job with the same aggressiveness and progressiveness that have always characterized his undertakings in the past.

My home address has changed from RFD No. 4 to RFD No. 2. I still live at the same location, but the Post Office Department has seen fit to restructure the rural mail delivery routes out of Fayetteville, Tennessee. And we happen to live in one of the areas affected.

The 1971 convention in Wichita this spring will be another red-letter one! The people who are putting it on are some of the most knowledgeable and the most enthusiastic in our Society. So I expect, with confidence, another fine meet. Since Wichita is geographically located in almost the exact center of the country, nobody will have to travel all the way across the continent. So get your reservations in at once—I think we will have a big crowd!

WILLIAM T. BLEDSOE

AIS PINS

To be sold for the Scientific Research Fund. Lapel type or safety catch, \$2.50 each. Order from:

Clifford Benson, Secretary
2315 Tower Grove Avenue

American Iris Society
St. Louis, Mo. 63110

Affiliates of the American Iris Society

The following is the list of affiliates, as we have them to date. Please write Helen McCaughey, 5720 N.W. 36th St., Oklahoma City, Okla. 73122, about additions or corrections. This is the list as she has it to date, and she is sure some eligible clubs have not yet reported.

All state, area and local iris societies are welcome as AIS affiliates. Each affiliate receives its choice of a free slide program, the *Bulletin* for its library, and one silver and one bronze medal for its show.

To qualify for affiliation, the club's officers must be AIS members, and have at least fifty percent of its membership as AIS members. Affiliates must participate in the AIS registrations and awards systems. Those clubs who do not meet the above requirements may affiliate with the payment of \$25.00 dues.

Each year, with the annual election of officers, the following people should be notified, in order that we can give you the best possible service.

Helen McCaughey, 5720 N. W. 36th St., Oklahoma City, Okla., 73122.

Clifford W. Benson, 2315 Tower Grove Ave., St. Louis. Mo. 63110.

J. Arthur Nelson, 3131 North 58th St., Omaha, Nebr. 68104.

BIRMINGHAM AREA IRIS SOCIETY, *Pres.*, Richard Mansfield-Jones, Pleasant Grove, AL.

HUNTSVILLE CHAPTER OF AIS, *Pres.*, Mr. Donald Saxton, Huntsville, AL.

MARSHALL COUNTY IRIS SOCIETY, *Pres.*, Miss Sarah Scruggs, Guntersville, AL.

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SAN DIEGO-IMPERIAL COUNTIES IRIS SOCIETY, *Pres.*, Mrs. Eugene Cooper, San Diego, CA.

SOUTHERN CALIFORNIA IRIS SOCIETY, *Pres.*, Mr. F. Duncan Eader, Arcadia, Calif.

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MISSISSIPPI VALLEY IRIS SOCIETY, *Pres.*, Mr. Ralph Kay, Davenport, IA.

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HI PLAINS IRIS SOCIETY, *Pres.*, Mrs. Joe Duesberg, Selden, KS.

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Lifetime Plastic Plant Markers

LIFETIME MARKERS are used by both amateur gardeners and commercial growers as an attractive, long-lasting method for identifying and pricing plants and shrubs. Permanent, will not rot, easy to read, remains clear and plain even if covered with soil over winter. The writing can be removed with scouring powder or fine steel wool and the label can be used again and again. Remains neat and clean. One of the things we like best is the saving in time required to prepare labels at planting time.

The Tie-on Tags are popular with those who wish to fashion their own steel stakes from heavy wire.

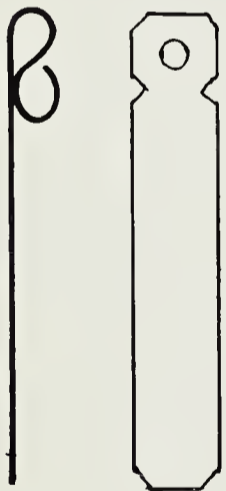
Sample Assortment: 5 each of A, B-4, B, C, D, E, F and H for \$1.00.

THRIFTEE MARKERS are made of lighter gauge plastic. They are used by commercial growers, nurserymen and florists . . . wherever durable, attractive plant markers are required in quantity at a minimum price.

Sample Assortment: 100 Thriftee Markers and Snap-on Tags for \$1.00.

THRIFTEE SNAP-ON TAGS eliminate the need for wires or strings. They are snapped into place with a slight twist and stay until removed the same way.

The 3 inch SNAP-ON TAGS are used extensively by hybridizers of irises and daylilies. We use the square SNAP-ON TAGS in our iris and daylily display garden. They are snapped on under the flowers for garden visitors to see name and price.



MULTI-PURPOSE PLASTIC TAG

Ideal for labeling iris, daylilies, trees and shrubs. Provides a lot of space for hybridizers. Makes a very economical, permanent garden marker. Customers appreciate receiving plants labeled with a permanent marker they can depend on.

Fashion your own stakes from heavy wire or discarded coat hangers as illustrated.

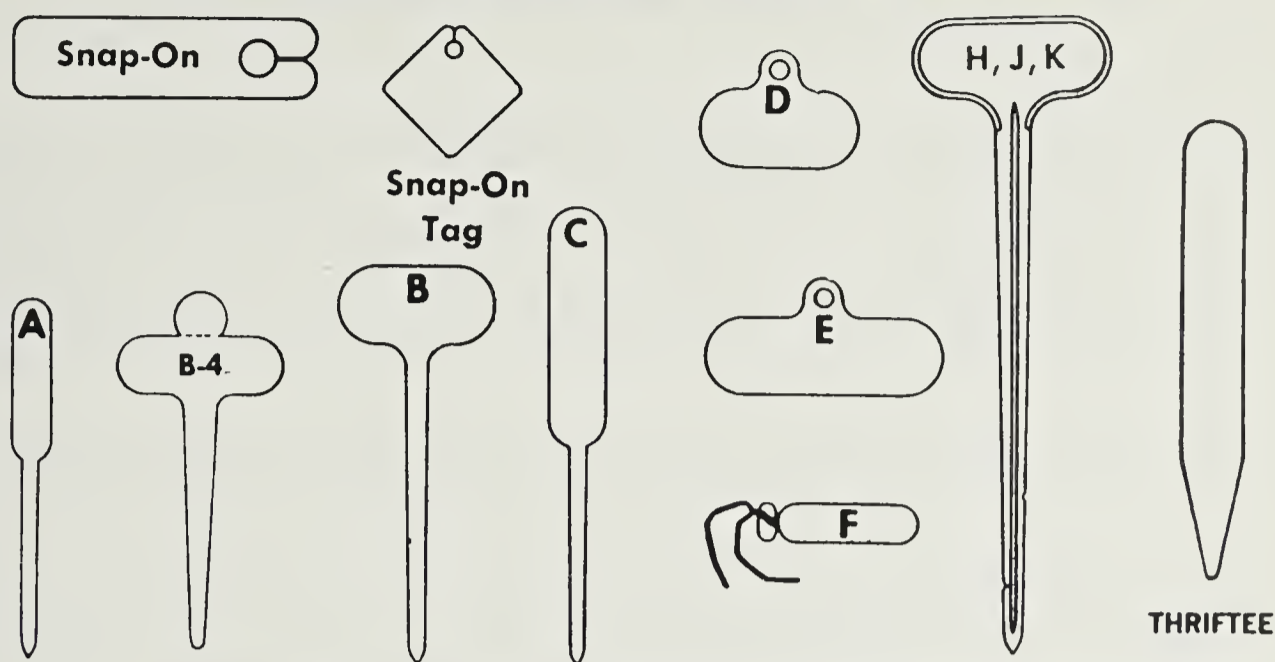
G—5/8" x 3½". Comes with copper wires.

100—\$1.50 500—\$4.60 1000—\$8.35

Gable Iris Gardens

2543 38th Ave. So., Minneapolis, Minn. 55406

Lifetime Plastic Plant Markers



POSTPAID PRICES IN U.S.A. EFFECTIVE APRIL 1, 1971

LIFETIME MARKERS	50	100	500	1000
A—4½" Vertical Stake	\$ 1.00	\$ 1.50	\$ 6.25	\$ 9.45
B-4-4" Tee Staked	1.00	1.60	6.50	9.75
B—2" x 5" Tee Stake	1.75	3.25	12.75	22.10
C—6" Vertical Stake	1.50	2.85	12.00	19.75
D—1" x 2" Tie-on Tag, with wires	1.40	2.45	10.80	17.85
E—1" x 3" Tie-on Tag, with wires	1.65	2.85	12.25	21.30
F—1½" x 2" Notched Tag, with wires	1.00	1.50	6.25	9.25
H—2½" x 8" Tee Stake	3.70	5.80	21.60	38.25
J—3" x 12" Tee Stake	6.00	10.50	38.50	68.60
K—4½" x 18" Tee Stake	10.00	19.65	79.50	146.25
P—1" x 12" Vertical Stake	4.50	7.90	28.00	46.50

All styles available in pure white. Styles A, B-4, B, C and D also available in spring green until supply is sold out.

THRIFTEE MARKERS	100	200	500	1000
4" x 5/8" Pure White or Spring Green	\$1.00	\$1.75	\$3.65	\$5.85
5" x 5/8" Pure White or Spring Green	1.20	2.15	4.25	7.00
6" x 5/8" Pure White or Spring Green	1.35	2.45	4.75	8.00
8" x 5/8" Pure White or Spring Green	1.70	3.00	6.00	10.00

SNAP-ON TAGS	100	200	500	1000
3" x ¾" Pure White or Spring Green	\$1.00	\$1.75	\$3.50	\$5.85
2" x 2" Pure White or Spring Green	1.65	2.90	5.00	8.00

WEATHERPROOF PENCILS 1 for 25c, 2 for 45c, 6 for \$1.25

Gable Iris Gardens

2543 38th Ave. So., Minneapolis, Minn. 55406

WE PROUDLY PRESENT OUR — 1971 — INTRODUCTIONS

TELL'S GARDENS
Telephone 801-225-6145

P.O. Box 331

Orem, Utah 84057

TALL BEARDED

AUGUST ASTER (Mogensen). E-L and Re. 38". Chivalry X Ad-1, probably Carabella x Floradora. Aster violet self. Dependable rebloomer (Aug. 14 here). Pods only.Net \$20.00

BISCUIT PINK (Muhlestein). ML. 38". Bon Vivant X Claudia Rene. Yellow standards; rosy violet (biscuit pink) falls, minutely edged tan; brownish tan hafts; beard orange tipped violet. No. 237. Pod and pollen.Net \$25.00

BLUE ALABASTER (Muhlestein). EML. 36". Broadmeadow X Top of the World. Reverse blue-white, standards darker blue-white. Beard pale yellow tipped blue. Leather-like substance. No. 314. Pods.Net \$25.00

CONCORD CONCENTRATE (Muhlestein). EM. 38". Zaida X Ghio 60-49: Pretty Quadroon x Frosted Starlight. Fluorite violet, concord or bramble purple. Medium sized ruffled and fluted flowers of much charm on nicely branched stalk. Twice Snow Flurry blood. No. 260.Net \$20.00

DAWN'S EARLY LIGHT (C. Palmer). M-L. 36". Mary Randall X Whole Cloth. Personable, copiously formed flowers on heavy stalks without quite enough buds (Whole Cloth responsibility) and slow to increase. Standards buff, flushed lightly at base with imperial purple. Falls rose-violet (Imperial purple) with lighter area around beard of buff yellow. Standards tightly domed; falls semiflaring. Flower large. One per customer. No. 6734.Net \$25.00

DREAM LOVER (Tams). M-L. 38". Miss Indiana X (Melodrama x Rippling Waters). The peer in this color class. I feel it has EVERYTHING. Heavy well-branched stalk with three buds per socket. The large flowers are ruffled and wide; the closed standards are clean blue-white; falls dark blue-purple; beard pale yellow tipped blue. No. T9-68. HC '69. One per customer. Very fertile both ways.Net \$25.00

FLUTED LAVENDER (Muhlestein). ML. 40". (Mayberry M 60-18: Gay Adventure x Dr. Wanlass) X Rippling Waters. Completely lavender-violet self, including beard. Rounded, flaring, wide flowers on well-branched stalks, Pod-fertile only. No. 280.Net \$10.00

EL TITAN (Tolman). M. 36". Triton X El Grande Azul. Large, heavily ruffled medium blue of heavy substance and excellent branching. Beard lemon yellow. Among the GIANTS of the iris world. No. 65-8-2.Net \$25.00

GOLDEN ACCENT (Muhlestein). ML. 36". Sunsite X Royal Gold. Heavily bred from Gold Ruffles bloodlines. Wide, classically formed, flaring. Golden cadmium yellow self, including beard. Well-branched stalk. No. 156. HC '70. Fertile both ways.Net \$25.00

HAPPY BELLS (Tolman). M. 32". (Cathedral Bells x Happy Birthday) X Fair Luzon. Medium pink; wide, globular flowers with closed standards and flaring falls; superb substance; coral beard. Most charming. Three branches and terminal. Fertile both ways. No. 63-40-1.Net \$25.00

HOBO PARTY (Muhlestein). ML. 36". Tea Apron X 231 "Elf Plic" (Dr. Loomis' grandchild of Wm. Mohr: Elf x Castle Rock) x Dotted Swiss). White ground "fancy" plicata, edged, dotted and brushed violet. Like patched and mended costume of a "HOBO;" no two flowers are ever exactly alike. A good stock permits a low introductory price. No. 258. Fertile both ways. Wm. Mohr blood makes it interesting.Net \$10.00

INA ROGERS (Muhlestein). ML. 36". (Fona x Dresdenette: Fleeta x sdg.: Pink Formal x Party Dress). Lively mauve-pink or petunia violet self, including beard. Healthy grower, fast of increase, thus a fine stock from '63 planted seed. No. 63-40.Net \$20.00

LOUD MUSIC (Muhlestein). M-L. 36". Bon Vivant X Wild Peacock. Attaining the show and brilliance hoped for in this cross, yet a blaze down the falls detracts for me. Well-branched stalks carry many buds. Standards brilliant yellow-orange; falls purple blended violet (amaranth) with hafts and falls bordered tan; orange beard. As colorful as some of the "MOD" costumes and music. Fertile both ways. No. 236 A.Net \$25.00

MEADOWLARK FRINGE (L. Peterson). Co-introduced with its breeder, Les. Peterson. ML. 34". (Bright Forecast x Rainbow Gold) X (Orange Pagoda x Tantallon). Another heavily Gold Ruffles-bred iris and containing much pink breeding, thus it will breed a wide range of colors. It is a luscious bronze-butterscotch blend, all ruffled and fluted. Falls have a lighter area toward center. Orange-yellow beard. No. LP 66-Y2. Fertile both ways. Only fair branching, buds toe in.Net \$20.00

OPERA NEWS (Spence). Co-introduced with its breeder, Herbert Spence. M. 36". Rippling Waters X sib to Glass Menagerie. Linebred from Snow Flurry blood. Medium violet with tangerine beard and flaring falls. Larger than the pod parent. Region 12 Garden Award and HC '70. 12 to 14 buds. No. 64-41-7Net \$25.00

RAVENWOOD (Lowry). M-Re. 34". (Beau Violet: First Violet x Violet Harmony) X (Triumvirate: Black Forest x Indiana Night). Wide, rounded, flaring black-violet that looks as if it had come through Dark Fury (a relative). When established, reblooms under favorable conditions. Excellent genes for rebloomers as well as violets and DARKS.

Net \$15.00

RED COPPER (Muhlestein). ML. 36". Doctor K X Tarn Hows. Smoothly finished red-copper self that is very rich and without haft markings of any kind. Linebred from Kleinsorge's Tobacco Road lines. Fertile both ways. No. 63-17. \$25.00

SAN RAMON (Gaulter). EML. 36". Amethyst Flame X Mademoiselle. Rich, smoldering, lively amethyst self, including beard. Well-branched stalk with many buds insures a long season of bloom. Linebred beauty of width and charm that I have admired for several years. Fertile both ways. Named for a lovely village near Larry's home. No. 63-44. ... Net \$20.00

STRANGE INTERLUDE (Spence and co-introduced with him.) M. 30". Rippling waters X 62-9-A: Prettyfield x Rippling Waters. Tan standards with smoky violet undertone; falls same with bright orange beard. Very different. EC and Best Seedling Rainbow Iris Society show '69. No. 64-44-7 A. Net \$25.00

TRIBAL TORCH (Hutchings). ML. 36". Ruby Mine X 65-89 A, a very involved cross with Mardi Gras, Pinnacle (5 times), Mexican Magic, Finest Hour, Cherry Falls, Sable Night, Pacemaker, Canyon Sky, Tompkins 30-96 D, Cock Pheasant, Wabash, Red Torch, Stunning variegata with red-brown (auburn) falls; styles yellow flushed red; beard burnt amber. Clean hafts. Superb addition to the limited variegatas. Fertile both ways. No. 68-174 A. Net \$25.00

YELLOW ACCENT (Muhlestein). EML. 36". Gold Piee X Border Gold. First of the yellows to flower in my TB garden. A dandelion to sunflower yellow self that is "somewhat dirty" on opening but clears up after being out a few hours. Fine wide, flaring falls. A bright spot in the garden. A good stock and a fine addition to this color. No. 330. \$10.00

CAPITATION (Knocke). EML. 36". Glamorous X Denver Mint. Another fine contribution to the yellows, with accent on form, ruffling and fluting. Excellent stalk with good branching and many buds. Some slight reticulations, but the form and character of the flower is such that this slight fault is overlooked. Another linebred Gold Ruffles product. Fast of increase and vigorous. K-121. Net \$10.00

BORDER BEARDED

BORDER JEWEL (Tolman). M. 20". Coraband x self. Medium sized flowers of white with yellow hafts. Falls delicately laced and edged yellow. Standards cupped but firmly held due to its superb substance. No. 64-18-1. \$20.00

CHALFONTE (Muhlestein). ML. 28". Lula Marguerite X 57-62: Green Ivory x 51-61-52: sib to Cream Gold x Yellow Tower. A miniature edition of my Blue Alabaster. Blue-white with blue standards; blue-white beard. Excellent substance. Flower in keeping with height, foliage and rhizomes. Fertile both ways. No. 277. Net \$15.00

CLETA (Muhlestein). ML. 24". Bon Vivant X Wild Peacock. Yellow standards; wide, rounded falls of lilac lavender, edged buff. Two branches and terminal. A beauty of great quality and charm. Named for Cleta Hansen of Logan, Utah. No. 236 C. Net \$25.00

LAVENDER 'N LACE (Tams). EM. 27". (Dr. Wanlass x Tam Lin) X (Cascadian x Queen's Lace). Heavily laced and ruffled lavender self; beard white tipped yellow. Excellent branching for its height. Net \$20.00

JOYFUL NOISE (Mogensen). EML. 28". (M. Suiter sdlg: Peggy x Pink Enchantment) X Fleeta. Clean deep pink, with pinker beard. Charts Wilson between porcelain rose and geranium lake. Fertile both ways. A sib to Sanctus. No. I 240-3. Net \$20.00

SERENDIPITY ROAD (C. Palmer). M. 18". Apricot Glory x Pink Formal. Standards light apricot; falls apricot and peach, with lighter area around tangerine beard. Four to five buds; flower 3½" x 3". Excellently proportioned BB. No. 6497. Net \$20.00

INTERMEDIATE BEARDED

ELUSIVE QUEST (C. Palmer). EM. Snow Flurry X Wilma V. Pale blue-white standards; falls tan with lighter edges; white hafts veined light brown; beard yellow, tipped white. Standards domed, almost conic. 4 to 6 buds. Pod fertile. No. 5519. Net \$10.00

ARILBRED

BETHÉL QUEEN (Luihn). EM. 28". Tatai Pasha X Ib-Mac. Antique gold standards; falls lilac lavender with strong maroon signal spot; beard bronzy brown. Secondary stalks insure long season of bloom. Very fertile pollen on anything. No. 63 C. \$20.00

ARIL-MEDIAN

PRISTINE CHARMER (C. Palmer). E. 22". Pastel Gem X Asoka of Nepal. Standards blue-white infused light yellow along midribs; falls bronze with brown veining, near-white edge; beard bronze to yellow. Domed to cupped standards. No. Onco 25. \$25.00

AVONBANK IRIS GARDENS

Dr. Lloyd Zurbrigg

903 Tyler Avenue

Radford, Va. 24141

1971 INTRODUCTIONS

- I SPY** (Sdlg. 65-26B-20) Northern Spy X Double Majesty. This is the largest Northern Spy seedling I have raised and it has been constantly large for three years, both spring and fall. Falls flare horizontally and standards hold together tightly. Stems are 36", well branched and strong. Darker than Northern Spy or Southern Spy, it brings the growing qualities of this line into a large-sized flower, which reblooms two weeks earlier. Fertile. . \$15.00
- JOLLY GOLIATH** (Sdlg. 67-26-Goliath). Purple Duet X Sunset Blues. Only one per customer and please order early. This giant has stalks to 44", with heavy-substanced, wonderfully wide blooms. The very clean standards are near-white, while the smooth violet-purple falls have an edge that matches the standards. The attractive ruffling sets off the lovely color contrast. Pollen is abundant and very fertile; untested as to pods. When the flower folds, the falls rise *upward*, so old flowers are never unsightly. Reblooms here early to mid-October. \$25.00
- MOOD INDIGO** (Sdlg. 67-1-B) After Dark X Red Duet. This rich iris is an absolute self with no markings. Even the beard is the same deep violet and the shiny texture really makes it sing. Very floriferous, it readily opens three or four blooms per stem. It is inclined to send up the odd stalk in June, right after the regular spring season, and comes again in late September and October. \$20.00
- VIOLET SUPREME** (Sdlg. 67-25A - H) Prince Indigo X Purple Duet. This has the most exquisite form of any remontant I know. It has just enough ruffling to make it very stylish, with all the width, flare, substance and texture to make it a classic. Color is pure spectrum violet. There is a small white area at the end of the *blue beard*. It has ample pollen and it is very fertile. Untested as a pod parent. Stems are 34" and have excellent branching. Reblooms early October. \$25.00
- GOLIATH'S MATE** (Sdlg. 67-26-Jumbo) Purple Duet X Sunset Blues. Huge flowers, 7" x 5" have standards of sea-lavender violet and falls of mineral violet with a central line matching the standards. The beard is white and inconspicuous. Stems are 34" and have four branches and terminal. As compared to JOLLY GOLIATH, this has better branching, a more effeminate appearance and the standards are not white. Bears pollen most generously, but untested as a pod parent. \$20.00

1970 INTRODUCTIONS

- EASTER GLORY** (Zurbrigg '70). S. deep golden yellow; F. orchid, deeper in center and border. \$25.00
- GOLD AND ERMINE** (Zurbrigg '70). Very large, beautiful yellow amoena. \$25.00
- SPLIT PERSONALITY** (Zurbrigg '70). Smooth, blended red with unpredictable segments pf bright lavender. \$20.00
- BELGIAN LACE** (Jim Gibson '70). Very heavily laced remontant plicata. Huge. \$20.00
- FALL FORMAL** (Jim Gibson '70). Ultra-clean brown on white remontant plicata. \$20.00
- HALLOWEEN PARTY** (Jim Gibson '70). Fantastically ruffled super-star remontant variegata-plicata. \$30.00

Catalogue on request.

INTRODUCTIONS FOR 1971

REX P. and ALTA M. BROWN

BROWN'S IRIS GARDEN

12624 84th Ave. N.E.

Kirkland, Washington 98033 (Seattle area)

TALL BEARDED

- DARK VELVET.** 34". EM. A very dark sooty red-black with smooth velvety finish, lightly ruffled and widely flared, self beard, good substance, three branches and terminal. No. 64-114-5 (Storm Warning x Great Day) X Edenite. \$25.00
- ENCHANTED CLOUD.** 40". ML. Beautifully formed icy white with blue-white beard. Ruffled and flared, extra heavy substance, excellent four-way branching with 10-12 buds. No. 64-84-8 (Seafair Ballet X light blue sister of Silver Wedding). HC '70. \$25.00
- ORANGE FESTIVAL.** 38". ML. A large, ruffled, laced bright orange-buff slightly lighter in the center of the falls. The bushy beard is bright saturn red. Heavy substance; three and four branches with 8-10 buds. No. 64-20-23 (Exotic Buff X Chinese Coral). \$25.00
- PROUD SALUTE.** 38". EML. A huge, flaring, broad petaled flower of bright rose-violet with lighter area at the tip of the bushy old gold beard. Good substance and beautiful four-way branching, 9-10 buds. No. 64-32-10 (Gracie Pfost X Bon Vivant). \$25.00

BORDER BEARDED

- SMOKY VALLEY.** 24". EM. Widely flared and ruffled blend of smoky medium violet with bushy orange beard. Good substance and branching. No. 64-24-2 (Formal Affair X light blue sdlg. involving Eleanor's Pride, Snow Flurry, Helen McGregor and Chivalry). \$15.00

INTERMEDIATES

- APACHE GOLD.** 16-17". EM. A brilliant Indian yellow with soft brown falls blended to yellow at the edges and brownish orange beard. Lightly ruffled and flared. Gives an orange effect in the garden. No. M 1044-6 (Chocoletto X Bronze Babe). HC. '70. . \$7.50
- GYPSY WINE.** 22". E. Ruffled standards are wine-red; wide, ruffled, flaring falls are darker velvety wine-red, slightly lighter at the edges. Beard is bronze. Lovely form. No. M1060-5 Sister to Gypsy Smoke and Rose Harmony. \$7.50
- RUNAWAY.** 17". E. Ruffled flax blue standards with greenish midribs; tan-green falls, near citron green, with a quarter-inch band of flax blue at the edges; beard is flax blue tipped yellow. No. M 1350-4 (Knotty Pine x Lilli-Var) X unknown). \$7.50

STANDARD DWARFS

- BIT O' SKY.** 11". E. White standards are ruffled; rounded flaring falls are white with bright bluebird blue spot pattern in the center around the light yellow beard. Fresh and appealing. No. M 1241-11 (Angel's Love X Lilli Amoena). \$7.50
- JAVA GIRL.** 11". E. Golden brown cupped standards, lightly laced; rounded flaring falls are rich dark brown, lighter at the edges and a light brown line runs from the tip of the lavender beard to edge of falls. No. 1397-8 (Sunlit Trail X Gingerbread Man). . . . \$7.50
- KNOCKOUT.** 10-11". E. Standards are very pale greenish cream, near white; rounded falls flare horizontally and are smooth solid mustard color (no spot pattern); bright blue beard is full and bushy. Perfect form and beautiful color contrast. Only a few to release this year. No. M 1405-3 (Zing X Gingerbread Man). \$10.00
- RUBY CONTRAST.** 13". E. Ruffled, rich deep maroon-red with dark blackish velvet overlay on the wide flaring falls. The bushy aster violet beard gives good color contrast. No. M 1404-27 (Snow Troll x Lilli-Var) X Gingerbread Man). \$7.50
- WHIZ KID.** 11". E. Ruffled standards are light brown, blended with pale orchid; smooth medium brown falls are wide, rounded and flared and lightly ruffled. Contrasting beard is lavender-blue. No. M 1402-9 (Lilli-Var x Grace Note) X Gingerbread Man. \$7.50

MINIATURE DWARFS

- BABY BEE.** 5". EE. A flaring, bright canary yellow pumila with small twin spots of dark brown, near black, below the ivory beard, like wings of a small bee. Bright and showy. No. D851-7 (D511-3 pumila sdlg. X April Var). \$5.00
- BABY JEWEL.** 4". EE. Perfectly formed pumila of white with solid maroon-violet spot at the tip of the ivory white beard; falls are rounded and flaring. Color varies slightly, depending on the weather. No. D782-16 (Rosy Carpet X Kip). \$5.00
- DOLL FASHION.** 7". E. Smooth lovelia blue self with beard slightly lighter. Good rounded flaring form and long bloom season. No. M1249-5 (Dark Fairy X Grace Note). . . \$5.00
- SUN FAIRY.** 7". E. A dainty pure white with a bright lemon yellow spot on the upper half of the rounded, flaring falls. Beard is white and form good. Fresh and clean. No. M 1299-8. A sister seedling to Buttercup Charm introduced last year. \$5.00

Prices are net. Gift of our choice with orders of \$10.00 or more. List of earlier introductions sent on request.

BROWN'S SUNNYHILL GARDENS

RTE. 3, BOX 102

MILTON-FREEWATER, ORE. 97862

1971 INTRODUCTIONS

AUTUMN HILLS \$25.00
(O. L. Brown '71) TB. Early to Mid. 40". Glorious color combination. Closely held standards of rich burnished gold with wine, infusion in midribs. Arched flaring falls are deep wine-red, rich and velvety, with no haft venations. Bronze-brown beard. Excellent branching and bud count. Martel x ((Chivalry x Esquire X Altar Light) x Melodrama)) X Barcelona. (Sdlg. No. 9-12B40)

BUBBLING SPRINGS \$25.00
(O. L. Brown '71) TB. Midseason. 38". The ultimate in blue lace resulting from a 15 year breeding program for quality in this class. Rounded flowers are near flax blue; the falls a bit lighter with pale yellow beard tipped white. All petal edges are intensely laced and beautifully fluted. Three-way branching. Rippling Waters x No. 3-5E4 X Reciprocal cross. No. 3-5E4 involves Pierre Menard, Jane Phillips, Chantilly, Pretty Quadroon, Picture Bouquet, Arlene Wood, Altar Light, Beth Corey, and Queen's Lace. (Sdlg. No. 7-32D1)

EAGLE HARBOR \$25.00
(O. L. Brown '71) TB. Midseason. 38". Huge light wisteria blue with deeper throat and heavy deeper blue beard. Domed standards and wide semiflaring falls. Three-way branching, nine buds. HC '69 & '70. Sdlg. No. 7-17A26. Commentary X Silver Trail. This lovely iris received much favorable comment and attention in Mr. Watts' beautiful Guest plantings during the New York AIS Convention in 1970, also in other Midwestern and Southern Guest gardens.

MACEY NET \$5.00
(Constanze Harder '71) INTERMEDIATE. 15 to 17 inches. Two branches and terminal. 4 buds. 4½" flowers. One of the greenest things we have seen from Green Spot breeding. Lovely ruffled flowers with primrose yellow standards; horizontal falls of chartreuse with deep green "fern leaf" pattern radiating from the fuzzy orange to white beard. Unique and valuable parentage—Fairly Flax x Green Spot X Capitola.

ROCKETTE \$15.00
(O. L. Brown '71) TB. Midseason. 30". For some time numerous garden visitors have urged us to introduce this smaller blue sister of Light Fantastic. Heavily ruffled and fluted with jaunty horizontal falls. Medium wisteria blue with light yellow beard, clean and classy. Very good stalk with three branches and terminal. Sdlg. No. 4-13B4

SALMON RIVER \$25.00
(O. L. Brown '71) Mid to Late. 36". Huge flowers of heavy substance in a striking orange color which reminds one of smoked Sockey Salmon. Standards are closed and the 3½" wide falls are semi-flaring. Three well-spaced branches on sturdy stalks. Nine buds. (5-28A16—(Chinese Coral x L-1A2, involved pinks) X Irish Lullaby. The many visiting irisarians of 1969 Region 13 will remember it as under number 8-16E6.

TROPIC PEARL \$20.00
(T. M. Brown '71) TB. Midseason. 32". Domed standards are mauve with pink infusion. Wide 3½" falls are waxy white with smooth brushing of yellow-orange on the shoulders. Tangerine beard adds interest. Two branches; spur and terminal. Seven buds. An iris with terrific breeding potential. Kissin' Kin x Patrician X Sib. HC '68, C of C '68. Sdlg. No. 2-22 K.

VIOLET FAVOR \$20.00
(O. L. Brown '71) TB. Midseason. 36 to 38". Beautifully formed violet self, including beard. RHS Chart No. 88A or Campanula Violet. Large, lightly ruffled flowers have closed standards with flaring falls and heavy substance. Excellent three-way branching. Queen's Favor X Silver Trail. Sdlg. No. 7-18C8.

PLEASE NOTE OUR NEW ADDRESS

You may order directly from this ad or send for our free Catalog. Remember, we must have your Zip Code!

*A Preview
Of Our 1971
Introductions*

DREAM OF LOVE

\$25.00 Net

(Corlew 1971)

Sheer beauty and ruffles in pastel apricot. Not pink, salmon, beige, but the subtlest tint of apricot. Matching apricot beard. No other color or markings to mar the clean beauty. Fine branching and many buds. If the pastels are your preference, you will agree that this one is a "dream". Fertile. 30". Midseason. Seedling No. 467-7A. Rio Roso X New Frontier.

GRAND ROMANCE

\$30.00 Net

(Corlew 1971)

Classically formed blooms in a combination of colors as lovely as they are difficult to describe. Basically a light pink, it has a haunting overlay of blue-violet that sets it apart. Ruffled and with just a hint of lace. Tangerine-orange beard. Beautifully different! Adequate branching with 3 buds per socket. Fertile. 32". Midseason. Seedling No. 453-7A. Signature X Silvertone. HC 1970.

HC 1970.

PROCLAMATION

\$30.00 Net

(Corlew 1971)

Here is an iris that stands proud and tall in the garden. A full, bright yellow self, it has a clarity of color that cries for attention even from afar. Does not fade or burn even under the most adverse weather conditions. Self beard. Magnificent branching with 3 or 4 buds per socket. A natural for the show bench. No pollen, but does set seed. 36". Midseason. Seedling No. 472-B. County Fair X Sexton Sdlg: (Grand Teton x Moon River) x (Top Flight x Techny Chimes). EC and HC 1970.

THE CHERRY LANE GARDENS

of Glenn F. Corlew
2988 Cherry Lane
Walnut Creek, California 94596

(Complete list available April 1st)

DeForests'

-- IRISNOLL --

R. 3, Box 363

Canby, Oregon 97013

1971 INTRODUCTIONS

ANCIENT GOLD. 34 inches. Large flowers; heavy substance. Ruffled standards, 2½ x 3 inches, held tight at top. Graceful, flaring falls, 2½ x 3; wine hafts. Irridescent "primuline yellow" (Ridgway). Three branches and terminal. Eight buds. A rich yellow with bright orange beard. Parentage: Sdlg. from Frances Kent, pink sdlg., Flirtation, crossed Chinese Coral. \$25.00

COPPERCANA. 38 inches. Nine or more flowers to a well-branched stalk. Closed standards; flaring falls; excellent substance. Copper-rose self blend with light wash of brown on the smooth hafts, and touch of brown on edges of standards and falls. Bright, shiny, large flowers. Parentage involves Mary Randall, Cordovan, Tonalea and Golden Chance. \$25.00

COTTON TOP. 34 inches. White standards, 2½ inches wide; closed flaring falls, 2½ inches; light apricot-yellow blend. Medium tangerine beard. Nine large flowers to a well-branched stalk. Parentage involves Oralee, Hall pink sdls., Apple Valley and Silver Peak. HC '70, under No. 70-12. \$25.00

OTHER RECENT IRISNOLL INTRODUCTIONS

ADMIRAL SIDEBURNS	\$20.00	FLOATING MOON	\$ 7.50
ALENETTE	17.50	GOLD QUEST	4.50
BAYBERRY CANDLE	20.00	HONEY RAE	30.00
BLACK PANSY	12.00	LILAC RIDGE	10.00
BLUEBELL LANE	10.00	SACRED MOUNTAIN	10.00
BRIGHT 'N FAIR	7.50	SHINY BUBBLES	10.00
CADETTE	5.00	TALKING POINT	12.00
CIRCLE D	3.50	TANYA	17.50
FETE DAY	3.50	WIDESPREAD	22.50
FLAXFLOWER BLUE	7.50		

Orders of \$10.00 and up postpaid in the United States. Extras included, your selection. No catalog.

Checks payable to "Irisnoll", please.

KNOCKE INTRODUCTIONS

1971

- CAPITATION.** Sdlg. K-121. TB. 31". M. Glamorous X Denver Mint. Ruffled, brassy yellow. Orange-yellow beard. Its seedlings have been very ruffled. HC '69. '70. Co-introduced by Tell Muhlestein. \$10.00
- DARK ALLEY.** Sdlg. K-160. TB. 38". M. Cross Country X Dark Fury. Deep violet standards; red-purple falls; violet beard. Large flowers. Tall and colorful. HC '70. . . . \$15.00
- DEBORAH SUZANNE.** Sdlg. K-950. TB. 34". M. Lovilla X Tideland. Light greenish blue (off white). Yellow-tipped white beard. Large. Good substance, form, and an exciting breeder. HC '70. \$25.00
- KISS.** Sdlg. K-155. TB. 30". M. Space Ship X Tea Apron. Light violet-blue plicata. There are larger irises, but none more beautiful than this ruffled charmer. Excellent branching. Plant in balance. HC '70. \$25.00
- UNEXPECTED.** Sdlg. K-971. TB. 33". M. ((Full circle x Mary Pickford) x Space Ship) X Stepping Out. Deep violet-purple plicata. Well received at convention. HC '70. \$20.00

ALSO

- WITH IT** (Knocke '69). Wonderful ruffled clear light blue. HM '70. \$15.00
- VIRGINIA LOUISE** (Knocke '69). Very large light violet. \$15.00

ALSO

A very large selection of recent introductions. If you visited us during the convention, you may have noted some you liked. If not, send us your want list. We probably can supply a goodly number that you are looking for, at prices that will please you. No list.

FREDERICK J. KNOCKE, M. D.

P.O. Box 13

Readington

New Jersey 08870

Old Brook Gardens

announces no new introductions from Professor William G. McGarvey for this year, but calls your attention to the fact that McGarvey Siberians were 1, 2, and 3 in competition for the Morgan Award. Dewful won it (and the President's Cup as well) Ego was 2nd and Super-Ego 3rd. Although Dewful is a superior iris, Professor McGarvey is of the opinion that Ego and Super-Ego are better. Bloom—a bit later than Dewful, the other two receive a bit less attention. It must also be noted that Id received an HM in 1970.

PREVIOUS McGARVEY INTRODUCTIONS

The Siberians listed and others from the McGarvey garden may be seen among the guests at the 1971 AIS Convention. They may also be seen at the Presby Garden where most of them have been grown for some years.

FORETELL (1970): 32". A truly unusual plant—a fertile hybrid from a pure species 40-chromosome *I. forrestii* X a 28-chromosome Siberian hybrid. Vigorous, well branched, and carries flowers of flaring form and exotic color, gray, blue and yellow. Named to suggest a future of fine progeny, it is a worthy garden subject in its own right. King's Forrest X Super Ego.

Net \$30.00

FORREST SCION (1970): 24". Brilliant yellow from pure species *I. forrestii*—an improvement over its excellent parent in color, flower form and plant, this new introduction is exciting evidence of its excellent genetic background. Mid-to-late Siberian season. King's Forrest X self.

Net \$30.00

ID (1969): 20". Velvety black Siberian from pure *I. chrysographes* breeding. True to species in form. Third of the "psychological" irises. An iris for the connoisseur but grows well in New York's north country and at Presby in New Jersey. (Mid-season). HM 1970.

Net \$12.00

KING'S FORREST (1969): Clear light yellow from pure *I. forrestii* breeding, this plant makes an attractive garden clump. True to the species in form. Parent to the two 1970 introductions. For the expert and connoisseur.

Net \$12.00

EGO (1966): 32". Compact, ruffled, flaring blue flowers, decided variation in Siberian form and has had nothing but high praise. White Swirl X McG Med B-Lt-b-sty. HM 1967, JC 1968.

Net \$20.00

SUPER-EGO (1966): 32". Unusual flowers of ruffled, flaring form; stands pale blue near white, large rounded falls darker blue shading to powder blue at the edges. White Swirl X McG Lg-B. HM 1967, JC 1968.

Net \$20.00

DEWFUL (1967): 40". Sister to EGO entirely different in form, its falls form a shallow cup. Medium blue self with light blue styles, HM 1968. President's Cup '70, Morgan Award '70.

Net \$20.00

BLUE BURN (1968): 32". Sib to EGO and DEWFUL but different from both, light blue flower with white highlights suggesting blue water rushing over highland rapids. "Burn" in Scotland means stream or river. HM 1969.

Net \$15.00

FALL SHIPMENT ONLY—ON SIBERIANS

Send for Free List of Median and Tall Bearded (My Own Introductions Only)

Harry B. Kuesel

19 Mary Lane

Greenvale, New York 11548

IRISES FROM THE GARDEN OF JAMES E. and SEARCH S. MARCH

We had planned to introduce an orange and a violet seedling in 1971, but arrangements have been made with the Wilds of Missouri to introduce and handle our irises in 1972. Therefore, we are holding these two seedlings until 1972 to increase stock and allow Wilds to get pictures for their catalog. We will still be in business with our former introductions this year and will serve those who wish to deal with us in the future.

LACED PETTICOATS (March '70) \$20.00 net.

SUN TEMPLE (Marsh '70) and **MOON DANCER** (Marsh '70). (Descriptions in our ad in the April 1970 Bulletin). \$20.00 each, two for \$35.00 and three or more rhizomes, any combination, \$15.00 each.

SAILOR TOGS (Marsh '69) and **CHICAGO** (Marsh '69) will be \$15.00 each, two for \$25.00, and three or more rhizomes, any combination, \$10.00 each. (Description in our ad in the April 1969 Bulletin.)

MOLTEN GLASS (Marsh '68). Our sensational orange border bearded iris will be \$8.00 each, two for \$14.00 and three or more \$6.00 each.

PRAIRIE SKIES (Marsh '68) (Description in our ad in the April 1968 Bulletin) will be \$10.00 each, two for \$17.00, and three or more \$7.00 each.

SKY HARBOR (Marsh '67) (Descriptions in the April 1967 Bulletin) will be \$5.00 each.

ORCHID DANCER, BRIGHT MOON and ORANGE TRIUMPH will be \$3.00 each.

DISTANT HILLS, HARMONY HOUSE, and PIRATE TREASURE (Marsh '65), and **PRAIRIE BLAZE** (Marsh '64) will be \$2.00 each.

We give no discounts other than deduction for quantity stated above. You may choose extras from our former introductions. We have no catalog nor list, and have no other irises for sale. We will replace any losses through any cause as a courtesy to our customers as long as we have available stock.

We wish to thank our customers for their fine patronage and we shall continue to serve them as in the past, as of our agreement with Wilds.

MARSH GARDENS

3904 N. Ottawa Avenue

Chicago, Ill. 60634

The 1971 INTRODUCTIONS from

MELROSE GARDENS

309 Best Road South AA
Stockton, California 95206

THREE Tall Bearded Iris

ODYSSEY (Sanford Babson). The long awaited "super" plicata. \$35.00
CHAPEAU (Sanford Babson). S. cream buff, F. rose fuchsia. WOW! . . . \$25.00
BASIC BLACK (Ben R. Hager). There will even be pearls. \$25.00

ONE Standard Dwarf Iris

ORNAMENT (Hager). Blue with purple spot and ruffles. \$ 7.50

ONE Miniature Dwarf Iris

THREE CHERRIES (Hager). Rose-red; three red cherry spots. \$ 5.00

TWO SPURIA IRIS

EAGLE (Hager). Named for the first Moon Module. Burnt orange. \$15.00
MARILYN HOLLOWAY (Hager). They liked it in New York. \$20.00

ONE Remontant Bearded Iris

EARLY SNOWBIRD (R. E. Gibson). Crystal white for spring and fall. . . \$20.00

ONE Louisiana Iris

DELTA SUNSHINE (Hager). Yellow, of course. \$10.00

FOUR Japanese Iris

GEISHA MISCHIEF (Fred Maddocks). A "fun" affair. \$10.00
SUMMER SNOWFLAKE (Jonnye Rich). Elegance in white. \$15.00
FROST BOUND (Rich). It's BIG. \$10.00
SEA OF AMETHYST (Rich). It actually shimmers. \$10.00

ONE Daylily

PASSION (Hager) What else? It's gotta be RED. \$10.00

IT'S OUR POLICY: SOMETHING FOR EVERYONE!

Send for our 1971 Illustrated Catalog: 25 cents Listing at "DISCOUNT PRICES": Tall Bearded, Median, Dwarf, Novelty, Arilbred, Remontant iris.
FEATURING: SPURIA, LOUISIANA, SIBERIAN, JAPANESE (including IMPORTS FROM JAPAN), and WATER IRIS. (Not Discounted)

"FANCY" DESCRIPTIONS AND PARENTAGES OF INTRODUCTIONS IN OUR CATALOG.

INTRODUCTIONS FOR 1971

DOVE'S BREAST Sdlg. 17-68: (Pretty Carol x ((Spanish Peaks x (Chantilly x Spindrift)) X Rippling Waters) X Lilac Treat, Y5L, M, TB, 32", HC '69, Fertile both ways. This is a light blend which resembles a mourning dove's breast in color. It's a light tan with tones of violet-rose and light golden hafts. Its wide hafted falls with ruffles gives it a nice personality. Being about one-half Rippling Waters, it is very nicely branched. You will find it distinctly different for your garden. \$25.00

FIREY FURNACE Sdlg. 6-64: Aspenglow X Caribou Trail, Y1F, ML, TB, 29", RTG '68, Best Sdlg. Reg. 18 '68, Reg. 4 Best Out of Region Sdlg. '70. I had hesitated to introduce this one because it makes a small plant but after winning more awards than any of my other seedlings have won and after seeing it produce some outstanding seedlings, here it is. If you're looking for a deep yellow iris that won't fade in the sun, that has no dirty haze as have many of this color, that doesn't grow very tall, that's a good breeder both ways and is a dependable bloomer, this one is for you. The blooms have a ruffled swirled effect. To paraphrase someone else, a row of them looks like a "Flight of Butterflies." Hybridizers will note that the parentage may give them a new approach in their solid yellow breeding. Plenty of stock permits a low introductory price. \$15.00

GRANDMA'S SPRINGDRESS Sdlg. 6-67: (Sdlg. 18-61: (New Snow x Chantilly) x (Spanish Peaks x (Chantilly x Spindrift) X Rippling Waters, V1Lcm, M, TB, 34", HC '70. Fertile both ways. The name came from a suggestion by Frau Gabler, Hanover, Germany. She said the color reminded her of Herr Victor von Martin's OMA'S SOMMERKLEID. She explained that Herr Martin used the name because of the fact that in the olden days in Germany the women wore black dresses in winter and lavender dresses in the summer. I wrote Herr Martin and found that his iris had been registered in America so I couldn't use 'Summerdress'. The flower does remind one of a dress, a lavender one, with amber hafts and self beard which could represent a golden belt with golden pockets to match and touched off with a fine golden edging around the border (around the falls). This is one that would be recognized in any garden. \$25.00

LOVELY RIPPLES Sdlg. 1-67: Rippling Waters X Lovely Letty, V1L, M, TB, 34", HC '70, EC '70, Fertile both ways. This is a sister to Lilac Treat. Several judges have liked this better than Lilac Treat. I prefer the bloom on Lilac Treat over this one but this one does have better branching (4 way with spur), more buds (10 to 12), makes larger rhizomes and is more vigorous. I have some very nice seedlings out of this one; even got a rebloomer out of this one crossed with Lilac Treat. It is a lilac self with a red beard and makes a nice show stalk. Since it increases all over the place, I can introduce it at. \$15.00

PREVIOUS INTRODUCTIONS

LILAC TREAT (Niswonger '70), Sdlg. 4-65: Rippling Waters X Lovely Letty, V1L, M, TB, 34", HC '69 and '70, Fertile both ways. A lilac with a red beard, beautiful form including ruffles. It rated 3rd place in the Favorite Guest Irises poll at N.Y. It has produced some outstanding seedlings. \$25.00

SUPREME BLISS (Niswonger '70) Sdlg. 5-66: (Pink Fulfillment x Orchid Jewel) X Rippling Waters, O1P, TB, M, 34", HC '69, EC '69, Fertile both ways. A blush pink that is different with lots of lace. It's a sister to Raspberry Ripples. It is better branched than most pinks and should be a strong contender in the shows. It has produced some lovely seedlings. \$25.00

RASPBERRY RIPPLES (Niswonger '69) Sdlg. 4-66, sib to Supreme Bliss, RV1D, EM, TB, 36", HC '68, HM '70, Fertile both ways. A deep mulberry rose with a red beard, one of the best in this color class. It was the most popular iris at the Milwaukee Convention, was 4th runner-up for the Franklin Cook Cup at N.Y., rated 3rd on the Honorable Mention Awards in '70. Very well branched, vigorous and resistant to leaf spot. \$15.00

TYCOON'S GOLD (Niswonger '68) Sdlg. 33-63: Idaho Gold X Pretty Carol, Y1Lcm, L, TB, 33", HC '67, EC '67, HM '69, Fertile both ways. A large bright clean yellow with a white blaze in the falls. A strong stalk defies the wind to blow it over. Because of its late bloom, it hasn't been seen at the conventions since Denver but it still holds the record for HC votes (61) and those who grow it like its performance and the seedlings it produces. It has a delightful fragrance and is a good increaser. \$15.00

SAPPHIRE FUZZ (Niswonger '67) Lady Bluebeard X Marriott, B1L, M, TB, 32", a good breeder for blue beards, HC '67, HM '68, a really blue iris with a deep blue beard. Not a show flower but is floriferous and makes a beautiful clump in the garden. \$5.00

SEEDLINGS FOR HYBRIDIZERS

The cross that produced Raspberry Ripples and Supreme Bliss is about the best cross I've made (see parentages above). There was such variation in this cross; yet, branching, ruffles and lace were consistent. Some have liked the pinks as well as Supreme Bliss. I saved 6 from the cross. Here are the 4 unnamed: Sdlg. 16-66 is a salmon pink a little darker than SB, is shorter but has more lace (this is the laciest one); Sdlg. 13-66 is light pink, tallest and best branched of the cross; Sdlg. 14-66 is a pink with slight tinge of blue orchid, good form; and Sdlg. 21-66 is a lacy ivory white with some yellow at hafts and marigold beard. \$5.00 each or all 4 ... \$15.00

NO CATALOG

ORDER FROM THIS AD

CAPE IRIS GARDENS
Dave Niswonger, Hybridizer

822 Rodney Vista Blvd.

Cape Girardeau, MO 63701

1320 Murphy Lane

Les Peterson — IRIS

Salt Lake City, Utah 84106

Introductions 1971.

CORANGE'. (pronounced Cor-an-jay). Main Event X Orange Parade. TB. 32-34". M-L. A wide, well-proportioned self of polished pale copper with an orange suffusion. The standards are closed — the falls flaring and are broadly ruffled. Substance and texture are good — the branching and bud count are also satisfying. An iris you will be proud to possess. Received 14 votes for HC '70. Net. \$20.00

MEADOWLARK FRINGE. (Bright Forecast x Rainbow Gold) X (Orange Pagoda x Tantallon). TB. 32-34". M-L. A very pretty blend of medium bronze butterscotch yellow with closed standards that are neatly laced and ruffled. The flaring falls are also laced and broadly ruffled and fluted. As with **CORANGE'**, this iris has many GOOD qualities that make it an attractive garden showpiece. Tell's Iris Gardens co-listing. Net. \$20.00

GLORY BORN. Sib. X Soni Ce. AR. 20-22". E-M. A white arilbred of good onco form — good substance, texture and size. Bud count 3-4. The standards are a clean, new-snow white. Falls unfold a very pale cream that soon becomes white as standards upon exposure to sunlight. Styles pale cream — beard medium yellow. No haft markings. Small, faint dove-gray signal. Pollen fertile. Limitly tried with self and Soni Ce for podding ability. 12 votes for HC '70. Net. \$20.00

TUESDAY SONG. (Imaret x (Imam Ahmid x Bali Aga) X Sib. AR. 24-26". E-M. An aril-bred equally as pleasing in every way as the above described **GLORY BORN** — but here the color is different. Standards are a rich wisteria-blue or sea lavender — the falls a dusty medium pink — slightly haft marked. Fertile both ways. Crosses well with supposedly difficult arilbreds. 10 votes for HC '70. Net \$20.00

Three Earlier Main Event X Gypsy Lullaby Introductions

GALA MADRID '68. An enormously popular bitone with butterscotch-gold standards and brown bordered wine-red falls with blue flash. A sure winner. \$22.50

PORT LISBON '70. Charm emanates from this bicolor with smoky white or light tan standards and falls of claret red. Received Favorite Out of Region Award Region 14 Spring Meet at Stockton, California 1970. \$22.50

SONG OF PARIS '70. Wide, pleasingly proportioned self of magenta color. Sure to satisfy in all ways as to branching, bud count, bloom size, vigor. . \$22.50

Limited Special Offer: 1 each of above 3 irises (plus bonus iris) \$56.00

Other earlier releases

GRAPEMO '70. (pronounced Gra-pem-o). Main Event X Edenite. Short TB. 26-29". M-L. Rich purple-blue self — color similar to that of Concord grapes. \$15.00

SATAN, JR. '69. Main Event X Utah Velvet. BB. 20". M-L. Velvety smooth red. Well liked. EC. HC and Best Sdlg. Award at Salt Lake Show '68. Special. \$15.00

No catalog or list — order from this ad — please.

Introductions for 1971 REES IRIS GARDEN

1059 Bird Avenue

San Jose, Calif. 95125

Rees Iris Garden takes pride in offering for the first time three introductions from a new hybridizer, Mr. Edgar Sellman of Mountain View, California.

Mr. Sellman is a successful collie breeder and American Kennel Club judge, and has made a study of genetics for many years. He himself has finished 17 champion dogs, and many other collies from these blood lines have won championship honors. Applying his knowledge of genetics to iris breeding, Mr. Sellman has produced a considerable number of seedlings of merit. From these, we have selected for introduction this year the following outstanding originations.

VICTORIAN DAYS (Sellman '71). TB. 34". Mid-season. (Gaily Clad X Bon Vivant). A really different color combination. By chart, the standards are carmine rose and the falls mineral violet, but the garden effect is that of pink standards and violet falls — unlike anything we have seen before. The beard is a bright peach pink. Standards are closed and falls flaring. The ruffled and laced flowers measure 5½ inches overall and are carried on three branches and terminal. Sdlg. A-10. Net \$25.00

FRESH AS PAINT (Sellman '71). TB. 36". Mid-season. (Gaily Clad X Bon Vivant). This sib to Victorian Days is very different in color. The closed standards are Chinese yellow and the flaring amethyst falls are edged in magnolia purple. Both standards and falls are ruffled and the six-inch overall blossom is exceptionally crisp in appearance. We have had as many as 20 blossoms on the three branches and terminal, but the average number is 15. Sdlg. A-9. Net \$25.00

RUTH MARGARET (Sellman '71). TB. 32". Mid-season to late. (Christie Anne X Orange Parade). Standards are azalea pink, falls a warm white with an azalea pink edge, and matching shoulders and styles. Geranium red beard. Ruffled, flared blossoms, 5½ inches overall. Four branches and terminal, with lowest branch rebranched. This iris is so luscious it looks good enough to eat. Sdlg. A-7. Net \$25.00

EARLIER REES INTRODUCTIONS

HIGH STYLE (Clara B. Rees '70). TB. 36". Early to mid-season. ((Desert Song x Pink Formal) X June Meredith). Showy hot pink, with big, ruffled flowers, serrated around the edges of standards. Exceptionally fine grower.

\$22.50

APRIL ELEGANCE (Clara B. Rees '70). TB. 40". Mid-season. Snow Flurry X Sable Night). Elegant, waved rosy lavender blossoms, measuring 6½ inches overall, carried on short laterals. Magnificent in a clump. \$22.50

WALTZING (Clara B. Rees '69). TB. 39". Mid-season. (Arctic Flame X Celestial Snow). Clear, crisp, ruffled lavender self which many irisarians consider the most beautiful origination of this famous hybridizer. HC '66. \$20.00

ANGEL BRIGHT (Clara B. Rees '66). TB. 38". Early to late. (Alice Lemen X Marilyn C). A big bright white, with a glowing golden center and beard. Altogether lovely and popular. Needs establishment. HM '68. \$10.00

LIGHT AND LOVELY (Clara B. Rees '66). TB. 36". Early to mid-season. ((Yellow Organdy x Party Dress) X Convention Queen). A big handsome blending of cream and light yellow tones. Much ruffling. Often blooms in winter. HM '69. \$10.00

SNOW FLURRY (Clara B. Rees). World-famous ruffled ice white which is one of the greatest iris parents of all time. Every year hybridizers ask us for a piece of the original stock, and we will send a free Snow Flurry, on request, to any purchaser of any of the above irises. This will be in addition to other bonuses.

*We give generous bonuses on all orders.
Order from this ad, as we do not issue a catalogue.*

ANNOUNCING RIVERDALE'S 1971 INTRODUCTIONS

TALL BEARDED

CRANBERRY VELVET (Bonnie Dunbar). TB. 40". HC 1970 \$25.00
Sdlg. 104-67-7 (Esther Fay X Black Swan). Standards are full rich cranberry red. Falls darker, with a narrow band matching the standards. Wide, rounded and ruffled petals. Complementary orange-brown beard. Sturdy stalks and good branching.

AUF WIEDERSEHEN (Glenn Hanson). TB. 32". \$20.00
Sdlg. 22-307 (Soft Shoulders X Crinkled Ivory). A pale creamy white washed light yellow at the haft, in some years with a light smoky cast. Opens several large flowers at a time on massive stalks with fine branching. Usually late blooming.

In 1967 we introduced Glenzula for the Bakke-Messer hybridizing duo. It turned out to be a sure fire breeder for lace. Out of its many children, the hybridizers selected the following three for introduction this year. All are beautiful garden subjects, but they also carry the heavy lace factor for breeding.

FROSTED HEATHER (Bakke-Messer). TB. 34". \$20.00
(Brightside X Glenzula). Light clear lilac standards. Falls same with a lighter wash at the throat. Heavily laced, including the stylearms.

FROSTED PEARLS (Bakke-Messer). TB. 34". \$20.00
(Brightside X Glenzula). Huge, iridescent ivory-white self with a light yellow throat. White beard. Heavy lacing in all parts.

MINNESOTA FRILLS (Bakke-Messer). TB. 31". \$20.00
(Minnesota Glitters X Glenzula). A beautiful, very lacy bitone with pale yellow standards and ivory falls edged in pale yellow, set off by a dark yellow beard.

STANDARD DWARFS

DANCING EYES (David Sindt). SDB. 11". HC 1970. \$7.50
Sdlg. G702 (Green Spot X unknown). Soft yellow standards; crisp creamy-white falls. Heavy brown halo around the pale yellow beard blends to a golden-brown haft. Nice ruffling and proportions. Horizontal falls. Vigorous and floriferous.

EMERALD RAYS (Bonnie Dunbar). SDB. 10". \$7.50
Sdlg. 68-5 (Sunair X Lilli-Yellow). Clear intense yellow standards and falls with sharply defined green rays extending from the orange-yellow beard. Rounded petals, with horizontal falls. Neat foliage. A grandchild of I. arenaria.

MINIATURE DWARFS

WHITE LIGHT (Walter Welch). MDB. 7". \$5.00
Sdlg. T-520 (Baria x L-549) X unknown)). We are privileged to introduce this latest creation by the unquestioned master of the dwarfs. It is a pure white self, including the beard, with a splendid flaring form.

JELLY BEAN (Bonnie Dunbar). MDB 4". HC 1970. \$5.00
Sdlg. 62-3 (Stint X Vindobona). A tiny, sassy, well-formed wine-black self, even to the stylearms, with a blended bronze-blue beard. Nice foliage and a good grower. Everybody liked this little personality kid in our trial gardens.

FUZZY (Wm. Westfall). MDB. 6½". HC 1970. DIS Test Garden Certificate. \$5.00

Sdlg. 56-145 (Fairy Flax X Nana). Plum purple standards. Deeper falls with edging to match the standards. Large fuzzy blue-white beard. Fine flaring form.

WILD BLUEBERRY (David Sindt). MDB. 6". HC 1970. \$5.00
Sdlg. E107 (Sparkling Eyes X Blue Spot). Clear sky blue standards. Intense violet falls with a narrow edge of blue. Creamy white beard. The best dwarf we have seen in this color class. Not a fast increaser, but reliable.

RIVERDALE IRIS GARDENS

Glenn and Zula Hanson

7124 Riverdale Road

Minneapolis, Minnesota 55430

ORANGE BEAUTY \$25.00

1971

No. 67-31 64-13 (62-63 x 62-38) X 65-09 (63-26 x Marsh 61-5)
Midseason. 29"

A clear shade of yellow-orange (RHS 23-B) with a pink flush. Standards ruffled and domed. Beautifully ruffled and round semiflaring falls complemented by a tangerine beard. The color and form is a very desirable addition to this class. Three branches and terminal with 7 or more buds. Substance and plant habits are excellent. Very vigorous and fertile both ways. HC 1969 and 1970.

YELLOW RUFFLES \$25.00

1971

No. 66-67 64-61 (60-53 x 62-50) X Yellow Chiffon (Dancing Bride x Sib.)
Late. 29"

A clear shade of light lemon yellow (RHS 5-C) with stardust. Falls with a lighter spot at end of the heavy hellow beard. Flower is beautifully ruffled and waved with domed standards and flaring falls. Four branches and terminal with 9 or more buds. Substance and plant habits are excellent. Fertile both ways.

LILAC RUFFLES \$25.00

1971

No. 66-80 64-33 (Rippling Waters x 61-59) X Lilac Flare (Rippling Waters x 61-59)

Early. 29"

A very pleasing shade of lilac. Standards light lilac (RHS 85 B); falls light lilac blending to violet at the edge (RHS 87 B). Very ruffled with domed standards and round flaring falls, complemented with a light violet tipped tangerine beard. Very fragrant. Four branches and terminal with 8 or more buds. Substance and plant habits are excellent. Fertile both ways.

See inside back cover of this issue for full color pictures of above introductions.

PREVIOUS INTRODUCTIONS

PINK SLEIGH, 1970, Blue-pink, red beard. HC 1968	\$25.00
SALMON DREAM, 1970, Salmon pink, salmon pink beard. HC 1968 . . .	25.00
YELLOW CHIFFON, 1970, Canary yellow. HC 1964 and 1968	20.00
CREAM TAFFETA, 1970, Light cream. HC 1968 and 1969	20.00
ORCHID TAPESTRY, 1970, Med. orchid	20.00
PINK BALLET, 1969, Blue pink, pink beard. HC 1968, HM 1970	15.00
LILAC FLARE, 1969, Clear shade of lilac. HC 1968, HM 1970	15.00
DRESDEN FRILLS, 1969, Smooth beige pink, HC 1968, HM 1970	10.00
PINK TAFFETA, 1968, Blue pink, pink beard. HM 1969	15.00
PINK FRINGE, 1967, Blue pink, pink beard. HC 1966. HM 1968	10.00

NO CATALOG THIS YEAR. ORDER FROM THIS AD

All prices are net. Check, draft or money order must accompany order. NO C.O.D. please. Irises will be shipped parcel post-special handling, prepaid from MID-JULY to September 1st. We ship only healthy-state inspected plants and true to name. If not satisfied, notify us promptly.

**Nate and Thelma Rudolph
LAKELAWN GARDENS**

QUALITY REBLOOMERS

Tall Bearded 1971 Introductions of R. G. Smith

- BROWN DUET (Rum Jungle x Renaissance) Large, well-branched brown self.
Has rebloomed well in Belvidere, Ill. \$25
- SEA DOUBLE (Beatrice Joynt x Lovely Again) Beautifully ruffled blue self
combining the fine qualities of each parent \$20

Previous Introductions

- LACED DUET ('69) Wide, excellent quality light TB pink \$20

(priced at \$10.00 each)

- AUTUMN NIGHT ('68) Flaring ruffled dark purple self.
AUTUMN ELEGANCE ('68) Yellow tan-lavender fancy.
G. PERCY BROWN ('68) Smooth cream plicata.
CLOUD DUET ('66) Near white plicata.
PINK DUET ('66) Tangerine-bearded orange-pink.
FALL MAJESTY ('66) Tangerine-bearded ruffled light pink.
LOVELY AGAIN ('63) Lavender self.
One each of any five of the rebloomers immediately above \$35

(priced at \$7.50 each)

- GOLD DOUBLET Heavily substantanced honey yellow.
AUTUMN CHAMELEON Light tan-purple fancy amoena.
YELLOW DUET Tailored yellow.
REPLICATA Yellow ground vivid plicata.
All four of the rebloomers immediately above \$25

(bargains at two for \$5.00)

- PURPLE DUET Tall brilliant purple self.
BLACK DUET Deep purple-black from the red side.
RED DUET Nice red with striking orange beard.
WHITE DUET A clean crystal white.
DOUBLE MAJESTY Huge violet-purple fancy.
RETURN ENGAGEMENT Cinnamon-rose fancy plicata.
FALL FESTIVAL Large but short lavender-purple fancy.
ROSE DUETTE Brilliant tangerine bearded rose border iris.
BORDER DUETTE Clean wide flaring yellow border iris
Your choice of any five of the rebloomers immediately above \$10

All rebloomers have repeated here for many seasons. Write to: Raymond G. Smith, 3821 Sugar Lane, Bloomington, Ind. 47401.

Our 1971 Iris Introduction (White Cloudland) and Previous Introductions

WHITE CLOUDLAND (Thomas 1971) M-L, 34", Cup Race X (Cross Country X Whole Cloth). Picture in color appears on cover two of January 1971 Bulletin

We have named this iris after a range of spectacular mountain peaks, in south-central Idaho. According to legend, the Indians so named them because the white limestone peaks looked like billowing snowy clouds. This flower of course is not a mountain. However, if it was, it would be one of the largest. It truly reminds one of large white clouds in a blue sky. It is a tremendously large, beautifully formed and finished flower of purest white standards that are beautifully formed. The falls are wistaria blue, extra wide, flaring and overlap on well grown plants. Orange beards. It has the same beautiful form as its parent Cup Race. The blooms are of leathery substance and are well spaced on strong stalks. A real beauty, this is the showiest and largest iris I have seen in this class. \$25.00

APPALACHIAN SPRING (Thomas 1970) ML. 38" (New Snow X Whole Cloth X Blue Seedling)

Our 1970 Introduction has the most extraordinary green buds that open into a huge frilled and ruffled tinted light greenish-white self with an orange beard. Large size and heavy substance with wide flaring falls. Good stalks, branching and a good grower. We have been growing this unusual green-white Iris for several years and it seems to get greener and better with each passing year. A visitors' favorite here in our garden. It gives a decidedly green effect in the garden. It truly reminds one of our green and beautiful Appalachian Springs. It is as beautiful as the unsurpassable native beauty of our gentle mountains and hillsides known as APPALACHIA, where the ground is carpeted with wild gardens of spring flowers that really sing with color in the spring. \$20.00

CAPTAIN JACK (Thomas 1970) ML. 38" (Granada X Rippling Waters.)

A color illustration only begins to give you an idea of what a splendid flower this is. The actual flower is some darker. It is a self of strong reddish pansy purple or lavender. Or a blend of mulberry, raspberry, amethyst and plum. Semiflaring falls have clean brownish hafts. Beard is blue. Petal edges are laced and ruffled. Well branched and tall. \$20.00

MISS SALTILLO (Thomas 1969) ML. 36" (HC '68) (HM '70)

As you can see from the color picture of Miss Saltillo in the April 1970 Bulletin, it is a truly fine and beautiful iris. We feel that this iris will become, in its own right, a great iris and continue its unvaried performance in your garden each spring. It is a completely reverse bicolour, as the standards are gold on the outside and white inside; the falls are gold underneath and chalky white on the top side. Beautiful ruffled form with a precise border of lacy gold around all petal edges, that looks like it had been crocheted on. Heavy substantenced petals and a good grower. \$10.00

RAYMOND S. THOMAS

BOX 155

SALTILLO, PENNSYLVANIA 17253

To Spray or Not to Spray

By P. P. Pirone

(Reprinted with the permission of Dr. P. P. Pirone and of the New York Horticultural Society and its official publication, the *Garden Journal*, Miss Mary O'Brien, editor. The original appears in the *Garden Journal* of October 1970, pp. 152-3).

Dr. Pirone is Plant Pathologist and Senior Curator of Education at The New York Botanical Garden. The revised Fourth Edition of his book *Diseases and Pests of Ornamental Plants* has just been published by Ronald Press Co., New York, N.Y.

The recent banning of the so-called "miracle" insecticide DDT in some states has made many Americans more keenly aware of the dangers involved in the promiscuous or careless use of many pesticides. In her book, *Silent Spring*, published in 1962, the late Rachel Carson was among the first to bring national attention to the danger DDT represented to wildlife, especially when the pesticide was used with abandon.

At the time DDT was introduced, no studies had been made on its "biodegradability," that is, the rate at which it breaks down to an inert substance. It is now known that DDT, as presently manufactured,¹ is almost indestructible, persisting in soil and water for years. Many other pesticides presently in use are potentially very dangerous to people, pets, and wildlife for this and other reasons.

Many Pesticides Necessary

The pesticide question is, however, a complex one. Some toxic materials are extremely effective and often necessary to combat pests and diseases that attack man himself and those that attack food, fiber, and ornamental plants upon which he depends.

Until more effective substitutes are developed, it would be foolhardy, if not worse, to eliminate all pesticides as some well-intentioned but mis-informed advocates would have us do. *The real question is not one of use, but of abuse and misuse.*

The antibiotic penicillin causes a violent reaction in one person in many thousands, but no one seriously suggests it be banned because of this. Should the pain-killer aspirin be banned because it produces hemorrhage in some persons? Should all pesticides be banned because some of them by chemical composition or irresponsible use have harmed birds, fish, and other forms of wildlife?

Some plants, highly susceptible to insects, fungus and bacterial diseases cannot be grown successfully without the use of sprays. Roses and many ornamental trees and shrubs, like lilacs and flowering cherries, cannot be grown for long without the aid of pesticides. If growers were suddenly forced to discontinue using pesticides, potato production in the eastern United States would be drastically reduced and peaches and citrus fruits would almost completely disappear from the markets. Without the pesticides, herbicides, and chemical fertilizers now being used, only forty per cent of our population would have adequate quantities of food and fiber crops. *For the foreseeable future, we must still rely on certain pesticides to keep major pests and diseases of food and fiber crops and some ornamentals under control.*

To Use and Not To Use

Chemicals, as any other agents that manage man's environment, must be used with just regard to man's safety and the ecological system of which he is a

part. Obviously, where two pesticides are effective in controlling a certain pest, the one that is more quickly "biodegradable" should be selected.

It is well to remember, moreover, that spraying chemicals on plants is not a substitute for good gardening practices. You cannot neglect more traditional gardening procedures, such as applying plant food, controlling weeds, avoiding overcrowding and watering properly, and still produce healthy plants. Nor should you apply sprays to all plants in a given area whether they are infested with pests or not. The application should be restricted to smallest area possible and should be made with good equipment.

Before embarking on a spray program, you should first identify the pest or disease by means of books, pamphlets, or other printed matter. If this is not possible or is difficult, seek assistance from your local county agricultural extension service entomologists, or plant pathologists at State Colleges of Agriculture, and the U.S. Department of Agriculture, or from other qualified persons.

In the recently published 4th Edition of *Diseases and Pests of Ornamental Plants*, I did not recommend the use of nine pesticides: aldrin, BHC, DDT, DDD, dieldrin, endrin, heptachlor, parathion, and toxaphene, either because of their extreme toxicity or their high degree of indestructibility.

Chlordane and lindane, two chlorinated hydrocarbons that decompose more quickly than DDT, were recommended with limitations and only until such time as equally effective substitutes are found.

As a substitute for DDT, I recommend methoxychlor. More quickly "biodegradable" than DDT, its residual action lasts about two weeks when applied to plants as compared to three months or more for DDT. Its LD_{50} ² is 5000 to 7000 as compared to 250 for DDT. In terms of human toxicology, the fatal dose of methoxychlor for man would be 450 grams (1 pound) if ingested at one time, while for DDT it would be 30 grams (1 ounce).

Here are some of the pesticides that are recommended for use around the home, together with the recommended dosages and the pests they control. They can be safely used with very little chance of harm to people, pets, or the environment, provided they are used as recommended by the manufacturer.

Carbaryl (trade name SEVIN). LD_{50} 500, 2 T.³ 50% WP⁴ per gallon water. Controls: bagworm, leafminers, leaf beetles, Japanese beetles, Japanese weevil, periodical cicada, some caterpillars, webworms, skeletonizers, sawflies, spittlebugs, and the crawler stage of some soft and armored scales. Side effects: Too frequent use of carbaryl often increases spider mite population on some plants; can cause defoliation of Boston ivy and Virginia creeper, and is toxic to bees.

Chlordane, LD_{50} 570, 3 T. 40% WP, or 1 t. 75% EC⁵ per gallon water. Controls: ants Japanese weevil, and Taxus weevil.

Chlorobenzilate, Genite, Kelthane, and Tedion are recommended for spider mite control.

Cythion is a premium grade of malathion. See under malathion.

Diazinon, LD_{50} 134, 2 T. 25% WP, or 1½ t. 25% EC per gallon. Controls: azalea, birch, and boxwood leafminers; whitefly, bagworm, Fletcher scale, and pine tree moth.

Dimethoate (Cygon), LD_{50} 1000, 1 t. 30.5% EC per gallon. Controls: hemlock fiorinia scale, honey locust mite, and pine needle scale; in stronger solution, 4 t. of 30.5% EC per gallon. Controls: Nantucket pine tip moth, European pine tip moth, Taxus mealybug, euonymus scale, and pine bark aphid.

Dormant Oil, ½ to 2/3 cup. Controls: some species of aphids, mealy bugs, mites, soft scales (cottony maple, European elm, magnolia and tulip-tree), and

some armored scales.

Dormant oil plus Ethion, $\frac{1}{2}$ cup EC per gallon water. Controls: euonymus, helmlock, oystershell, pine needle, and tulip-tree scales; Taxus mealybug, gall mites, and spruce gall aphids (except on Colorado blue spruce).

Endosulfan (Thiodan) LD₅₀ 200, 2 t. 50% WP or 2 T. 24% EC per gallon water. Controls: aphids, Taxus bud mite, and many borers.

Lindane, LD₅₀ 125, 1 T. 25% WP, or $1\frac{1}{2}$ t. 20% EC per gallon water. Controls: some aphids, locust borer, coleopterous borers, and white pine weevils.

Malathion (also sold in premium grade as Cythion), LD₅₀ 1375, 4 T. 25% WP, or 1 to 2 t. 57% EC per gallon water. Controls: aphids, bagworms, case bearers, gall aphids, leafminers on azalea, birch, boxwood, elm, and hawthorn; mealybugs, psyllids on boxwood and hackberry, whiteflies and some chewing insects. Malathion and the premium grade Cythion have short residual lives of 3 to 4 days; they should not be used within a week of harvest of food plants.

Methoxychlor, LD₅₀ 5000 to 7000, 2 T. 50% WP, or 1 T. 25% EC per gallon water. Controls: caterpillars, beetle larvae, webworms, sawflies, crawler stage of scales, elm bark beetles.

Pyrethrum and Rotenone. These botanical (derived from plant parts) insecticides are still available. Pyrethrum combats most sucking insects, while rotenone controls most chewing insects.

Systemic Pesticides

The use of systemics is another way to control insects and some fungi. These substances are absorbed through the roots or leaves, translocated via the sap stream to destroy insects, mites, and fungi feeding or breeding in the plants.

Systemic insecticides should be used with great care because of their high toxicity. Among the safest ones are META-SYSTOX R, DI-SYSTON, and CYGON.

Several systemic fungicides have been developed recently. BENOMYL (BENLATE) controls black spot and powdery mildew of roses and kills spider mites as well. It is applied as a foliage spray, or directly to the soil where it is absorbed by the roots and transported to the leaves. Benomyl, moreover, is not highly toxic.

Another systemic fungicide, TBZ or THIABENZOLE, controls several fungus diseases.

Biological Control

Biological control of insects includes the use of parasites, predators, and bacterial and virus organisms. In her book *Silent Spring* Rachel Carson advocated this type of approach. Much research is now seeking to find parasites for the more destructive insects.

While it is true that, in a few instances, parasites and predators have controlled destructive insects successfully, it is unrealistic to expect biological controls alone to completely control pests. During the past eighty or so years, the U.S. Department of Agriculture has imported five-hundred-twenty natural enemies of pests. Only one-hundred-fifteen of these have survived and become established, and only approximately twenty have substantially controlled the pests they were imported to combat.

This is not to say that man's creative mind will not discover some simple non-toxic solutions for his plant pest problems. Recently beer was found to be a useful pesticide, more effective for controlling slugs than the long-recommended

(and highly toxic) chemical metaldehyde. In a four-day test at the Agricultural Research Center, in Beltsville, Maryland, Dr. Floyd Smith observed that three hundred grey slugs crawled into shallow pans containing beer and soon died, victims of drowning. Metaldehyde bait killed twenty-eight grey slugs in the same period.

¹ Recently the Aerojet-General Corporation, El Monte, Cal., developed a DDT that “self-destructs” after it is no longer needed. This formulation has a builtin capacity to degrade into compound “only 10% as toxic as original DDT”.

² The term “LD₅₀” stands for “lethal dose required to kill one half (50 per cent) of a group of test animals”. The dosage is expressed as a ratio: The amount of pesticide, in milligrams, per 1000 grams of body weight of the test animal concerned (usually rats). For example, an LD₅₀ of 5 is a dosage of 5 milligrams per 1000 grams of body weight. All pesticides specify lethal dose in a standard form, and thus comparison of dosages indicates relative toxicity. A minute quantity of a pesticide of 5 or less would be fatal to man or animals. For man, pesticides with an LD₅₀ value of 500 or above are relatively safe; a probable lethal dose would range from one ounce to one pint or one pound.

³ T = level tablespoon, t = level teaspoon

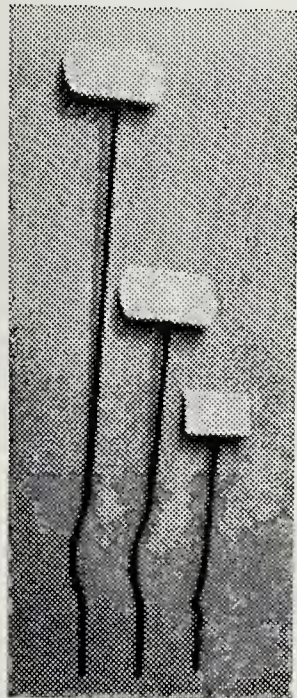
⁴ WP = wettable powder

⁵ EC = Emulsifiable concentrate

1971 INTRODUCTIONS

ORCHID MELODY (Sdlg. 68-37). T.B. M. 35". Large, very wide, ruffled, fluted and flared, light orchid-lavender self. Lavender beard. Good substance. (Rippling Waters x Skywatch) HC 1970 \$25.00
MYSTIC BLUE (Sdlg. 66-6). Siberian. M. 33". Standards erect, light blue with bright turquoise veining. Falls medium blue with dark blue glow to center; no lines at haft, smooth and clean. (Mountain Lake x Cool Spring) HC 1970 \$20.00

Mrs. Robert (Mattie) Reinhardt
14151—W. National Ave., New Berlin, Wisconsin. 53151



KAY SEE DE LUXE GARDEN MARKERS
RUSTPROOF PERMANENT
WEATHERPROOF

NEW PRICES. POSTAGE EXTRA ON ALL ORDERS.

REGULAR SIZE—2½x4" nameplate, 16½" stem		
Dozen, \$2.95	25 for \$5.75	100 for \$18.95
KING SIZE—2¼x4" nameplate, 25" stem		
dozen, \$3.75	25 for \$7.25	100 for \$25.95
DWARFIE SIZE—1¾x2¾" nameplate, 12" stem		
dozen \$2.60	25 for \$4.95	100 for \$16.95

See our Iris-Peony catalog, mailed in spring to all current AIS members, for information on mailing charges.

FOR PERMANENCE AND LEGIBILITY, THE BEST IS CHEAPEST

For best marking results, use Deco-write, a quick drying hard finish lacquer in a ball point tube. Easy to apply — lasts several seasons. Stocked in seven colors — Black, Forest Green, Cherry Red, Wine-red, Orange, Yellow and White. Price 69c per tube with order; 75c mailed separately.

TOP O' THE RIDGE

100 NE 81st St.

KANSAS CITY, MO. 64118

STEVE VARNER'S ILLINI IRIS

No. State St. Road

Monticello, Ill. 68156

PATTI PAGE (Varner '71) \$25.00
(296 = (31 x Illini Gold) X Miss Illini. TB. 35". EM. W/W9Yro. S white. F white, hafts not veined but have overlay of yellow-chartreuse-tangerine, with the yellow farthest from the tangerine red beard. This gay, distinctive white seems a natural to be named for the famous singer whose grandfather and Steve's were twins. The sturdy, well-branched stalk displays model blooms with substance and personality. 18 votes for HC.

MILDRED HARRELL (Varner '71) \$25.00
(Memphis Belle X Rococo). TB. 35". ML. OWILcm. S cream with buff tint. F same, tan veins at haft, light orange beard. Ruffled and airy, this makes a beautiful clump. Named for that grand lady who for years, almost single handedly, championed plicatas. HC '70 as No. 7172. It was most popular.

NEWLY RICH ('70). Rich deep yellow. HC as No. 460. \$22.00

CARILLON BELLES ('69). Buff cream standards; rose blend falls. \$20.00

HATARI ('68). Distinctive "hot" pink. HC. \$12.00

ILLINI ENCORE ('68). Light violet Siberian with branching and 9 buds. HM. \$20.00

MISS ILLINI ('66). Deep yellow self. AM '69. '70 Reg. leader Dykes Medal. . \$10.00

AVIS ('64). Excellently branched reverse violet amoena. HM. \$10.00

Order directly from this ad. Gift iris with each order. List some you would like; satisfaction is our aim. Price list of other irises on request.

SILVER STATE IRIS GARDENS

P. O. Box 2130

Henderson, Nevada 89015

LARGE SELECTION OF RECENT INTRODUCTIONS

CLOSEOUT SALE ON OLDER VARIETIES

QUALITY RHIZOMES

GENEROUS BONUSES REASONABLE PRICES

CATALOG ON REQUEST

NO INTRODUCTIONS THIS YEAR

SILVER STATE IRIS GARDENS WILL PROUDLY PRESENT
SIX EXCITING NEW IRISES IN 1972.

The Frosting on the Cake

Mabel Clare Jendel

Five years ago when we decided to have the annual American Iris Society Convention in Wichita we were in a maze of flurries and plans, with no patterns or tangible pictures. All we could think of was the end of the rainbow with its beautiful colors and the expectancy of the most wonderful show and convention ever held.

After all these years of hard work, setbacks, inspirations and disappointments, the pattern is emerging and the last pieces of the mosaic are falling into place with the exception of one—the weatherman. We will hope and pray that he will see the importance of his cooperation and our dreams will be realized. There was never a convention that the hosts did not have these same fears and trepidations. We realize that the convention guests are having the same feelings, but we also know that the work and dedication of the local irisarians is readily visible and that all the beautiful things we have planned will not be in vain. When the convention is over and finished we will all say, as in India's Love Lyrics, "I seek to celebrate my glad release, the Tents of Silence and the Camp of Peace."

But the Wichita Area Iris Club is planning another pleasure for their guests, so there will be complete fulfillment in their quest for beautiful irises. Our club is renowned for its many, many years of fantastic and amazing iris shows. We have had drouths, hail, rain, snows and sleets, but have always come up with a spectacular affair, attended by hundreds of people from far and near. It has always seemed a miracle to us that our gardeners were able to furnish all the gorgeous flowers for the show, in spite of the adverse weather. The Wichita area has such diversified weather and the elements seem to play tag all over, so in its hit and miss activities, it leaves us many places from which to gather our flowers for the show.

Wichita is one of the pioneers in youth participation in iris growing and hybridizing activities. They do not confine their interests to the tall bearded, but have gardens of spurias, oncos, dwarfs, medians and others. Their junior section of the show in arrangements is worthy of professionals. With teachers such as Laura Romick, Louise Hendricks, Mildred Simpson and Burdella Rhodes, these young people can hope to aspire to great heights in accomplishments and awards.

The buses will shuttle back and forth from the hotels to the Edgmoor Park Recreation Center, where the show will be held, so the guests may spend as much time as they wish to admire and enjoy the irises and arrangements on display from the many gardens and gardeners of the Wichita Area Iris Club. The show will be on Saturday afternoon before the banquet at the Radisson Hotel, and will be the frosting on the cake of our 1971 Convention and Show.

Details of convention on next two pages

1971 Introduction — MINIATURE TALL BEARDED IRIS

CAROLYN ROSE Rose-pink plicata with a bright yellow beard. Many dainty, flaring flowers on 20" to 23" slender stalks. Parentage: Seedling L-960 (from a line of pink plicata MTB seedlings involving Widget, Noweta, Pink Ruffles, Claire Louise etc.) X Little Lucy. \$10.00

A price list of my introductions will be sent on request.

1480 White Pond Drive

Mary Louise Dunderman

Akron, Ohio 44320

Convention '71 Wichita!

The 1971 Convention of the American Iris Society

May 12 - 15, 1971

CONVENTION HEADQUARTERS
RADISSON WICHITA

REGISTRATION

Registration fee: Before April 10 \$42.50
 After April 10 \$47.50
Mail registrations to: Mrs. R. S. Woodman, 3401 East Bayley,
 Wichita, Kansas 67218

TUESDAY — MAY 11, 1971

10:00 A.M. Registration — Mezzanine and Pioneer Room
1:00 P.M. Meeting, AIS Board of Directors — Wichita Room
4:00 P.M. Meeting, Regional Vice Presidents — Army-Navy Room
5:00 P.M. Meeting, Sectional Representatives — Jayhawk Room
7:30 P.M. Informal Gathering for Early Arriving Guests —
 Mezzanine Area and Assembly Room

WEDNESDAY — MAY 12, 1971

7:00 A.M. Registration — Mezzanine and Pioneer Room
8:00 A.M. Joint Breakfast Meeting, Board of Directors, Regional
 Vice Presidents, Sectional Representatives
 —Colonial Room
9:30 A.M. Meeting, Society for Japanese Irises — Assembly Room
10:30 A.M. Meeting, Reblooming Iris Society — Walnut Room
1:00 P.M. Meeting and Specialty Judges Training,
 Spuria Iris Society — Walnut Room
2:00 P.M. Meeting, Society for Siberian Irises — Assembly Room
3:00 P.M. Meeting and Specialty Judges Training,
 Median Iris Society — Walnut Room
4:30 P.M. Meeting, Dwarf Iris Society — Walnut Room
6:30 P.M. Welcome Dinner, Buffet — Ballroom
9:00 P.M. Robin Program Reception — Assembly Room

Convention '71 Wichita!

THURSDAY — MAY 13, 1971

- 7:00 A.M. Convention Headquarters Room Open for Late Registration — Pioneer Room
- 7:45 A.M. Buses Depart — First Street Entrance
Thursday Tour Gardens: Bartlett Arboretum, Harris, Ohl, Paulsen and Torrey Gardens
Lunch at the Bartlett Arboretum
- 5:30 P.M. Buses return to Hotel
- 7:30 P.M. Judges Training School, "The Ethics of AIS Judges", Dr. Hugo Wall, moderator — Ballroom

FRIDAY, MAY 14, 1971

- 7:00 A.M. Convention Headquarters Open — Pioneer Room
- 7:45 A.M. Buses Depart — First Street Entrance
Friday Tour Gardens: Fry, Jendel, Jones, Ramsey and Wall Gardens
Lunch at Historic Cowntown
- 5:30 P.M. Buses Return to Hotel
- 8:00 P.M. Jay Hunter Indian Dancers — Ballroom
- 9:00 P.M. Meeting and Specialty Judges Training, April Society International — Walnut Room
- 9:00 P.M. Meeting, Regional Test Garden Directors and Regional Vice Presidents — Assembly Room

SATURDAY — MAY 15, 1971

- 7:00 A.M. Convention Headquarters Open — Pioneer Room
- 7:30 A.M. Buses Depart — First Street Entrance
Saturday Tour Gardens: El Dorado Iris Gardens, Watson Park Gardens
- 1:30 P.M. Lunch — Radisson Ballroom
- 2:30 P.M. Shuttle Bus Service to Wichita Area Iris Club
22nd Annual Iris Show — Edgemoor Park
- 5:30 P.M. All Buses return to Hotel
- 5:30 P.M. Deadline on balloting for President's Cup and Cook Memorial Cup — Ballot Box in Hotel Lobby
- 7:30 P.M. American Iris Society Awards Banquet — Ballroom

GUEST IRISES
CONVENTION 1973, PHILADELPHIA, PENNA.

The Delaware Iris Society of Region 3, an affiliate of the American Iris Society, will host the 1973 convention. The guest iris committee invites hybridizers to send either named varieties, seedlings or both. Please send only recent introductions or seedlings seriously being considered for introduction. We can accomodate up to two rhizomes of the same variety.

All guest irises should be mailed to:

William Newhard
26 West Zion Hill Rd.
Quakertown, Penna. 18951

All bearded irises may only be accepted between August 1st and September 1st. The following data should accompany each plant.

1. Hybridizer's name and address.
2. Name or seedling number of the variety.
3. Type of iris.
4. Height, color and bloom season.
5. Year of introduction.

When seedlings under number are named it will be the responsibility of the hybridizer to notify the guest iris chairman prior to November 1, 1972 so that labels and guest listings will be up to date.

A receipt will be mailed to all contributors listing the gardens to which the plants were assigned. Directly after the convention contributors will be asked for instructions regarding disposition of the plants. Failure to reply by July 1st, 1973, will be interpreted as an order to destroy stock in question. All plants will be returned postpaid except to a foreign address.

The convention committee assures contributors that no plants will be distributed, traded or sold. Using pollen or setting seed on guest plants will not be permitted.

Owners of tour gardens shall not be held responsible for losses beyond their control, such as weather, pests or vandalism. Responsibility of the guest iris committee will extend only to plants sent directly to the guest Iris chairman.

William C. Newhard, chairman
Guest Iris Committee

CZARINA BROWN

1706 West Cherry St.

Marion, Ill. 62959

INTRODUCTION

SADA VAUGHN (H-7-3). From sdlg. B-11-1 (Regina Maria x Cascadian) X Helen Keller. This large medium to light blue self from an inbred line has very ruffled, full standards which flare out at the base to display the wide white to cream beard. The wide-hafted falls are very ruffled and widely flaring. Good substance, branching and strong stalks. Early to medium bloom season. HC under No. H-7-3 1969. Net \$25.00

Previous Introduction

CHANETTA (C-16-1). (Hinkle sdlg. from pink breeding) x Fleeta x Gay Primrose. Mimosa self. Closed, ruffled standards; semiflaring falls; touching hafts. Large flower; heavy substance. Net \$20.00

One each of above \$40.00

REGION 1 JUDGES (Revised List)

Connecticut

G RVP, Dr. Frank E. Halleck, Madison
 G Mrs. C. A. Bahret, Danbury
 G Mrs. Edwin D. Bartlett, Guilford
 G Mr. Frederick W. Gadd, Wethersfield
 G Mrs. Frederick W. Gadd, Wethersfield
 S Mr. John E. Goett, Monroe
 G Mr. Frederic A. Jacobs, Meriden
 A Mr. Carrol O'Brien, Wallingford
 A Mrs. Carrol O'Brien, Wallingford
 G Mr. Carl G. Schulz, Meriden
 A Mrs. Ruth Schulz, Meriden
 G Mr. Coulson H. Squires, Madison
 S Mrs. Charles I. Stephenson, New Haven
 G Mr. William Thomson, Stamford
 G Mr. Joseph Wascoe, Stratford
 S Mrs. Troy Westmeyer, Stamford

Maine

A Mr. Sherman N. Hysler, York
 G Mr. Bernard W. McLaughlin, South Paris
 A Mrs. Phillip Mollicone, Winthrop
 A Mr. Russell B. Moors, Auburn

Massachusetts

S Mrs. Thelma Barton, Gardner
 A Mr. Harry Bishop, Huntington
 H. Dr. G. Percy Brown, Barre

H Mrs. Preston E. Corey, Reading
 S Mrs. Irving W. Fraim, Waltham
 A Mr. Anthony Goulet, Fall River
 E Mrs. John Johnson, Quincy
 G Mrs. Stephen C. Kanela, Walpole
 G Mrs. Peter Markham, Lunenburg
 S Mrs. Percy I. Merry, Needham
 S Miss Eleanor Murdock, East Templeton
 H Mrs. Thomas Nesmith, Chelmsford
 G Mrs. Irving J. Russell, Framingham
 G Mrs. James H. Shepherd, Westboro
 H Mrs. Shirley Spurr, Wakefield
 S Mr. Kenneth Stone, Fitchburg
 G Mr. Carleton J. Ulm, Taunton
 G Mrs. Carleton J. Ulm, Taunton
 G Mr. Kenneth M. Waite, Westfield
 G Mrs. Kenneth M. Waite, Westfield
 G Mrs. Joseph Walsh, Quincy
 S Mrs. Frank W. Warburton, Westboro
 A Dr. Dennis Wharton, Natick
 G Mr. Win Wheeler, Sherborn

New Hampshire

H Mr. John A. Bartholomew, Laconia
 S Mrs. John A. Bartholomew, Laconia
 G Mr. Arthur J. Watkins, Concord
 G Mr. James R. Welch, Manchester

Rhode Island

G Mr. Allan P. McConnell, Rumford

ERRATA

In list of judges in January *Bulletin*, it is Mr. Sidney DuBose in Region 14, and Mr. J. H. Burge in Region 17.

In Region 14, it is H Mr. Frank L. Crouch.

Dr. Kenneth Kidd, listed as in Italy, now is a member of Region 14, at the School of Medicine, Stanford University, Stanford, CA.

In Region 24 it is S Mr. Mel Wallace, instead of A Mrs. Mel Wallace.

TWO FROM HENK'S GARDEN

AHEAD OF TIMES (Henkelman '71). A rich orange colored self offered more especially to hybridizers. See page 105, Section One, Bulletin 192. Encouraging reports from out-of-state. Limited number may be reserved now. \$25.00

GOOD TASTE (Henkelamn '70). Ballerina X Garden Party. A salmon colored self and truly classy. Wide, flaring and ruffled. Received one AIS Exhibition Certificate and three HC awards. Only a few. \$15.00

H. H. Henkelman

4020 Linden Avenue

Fort Worth, Texas 76107

Garden Planning

Elmira Purdy (Maryland)

A garden that is to be a lasting pleasure cannot be planted hit or miss. In garden designing, pattern is important; strive to develop an attractive pattern. The formal design stresses straight lines, right angles, circles and segments of circles. The informal or natural pattern depends on long flowing curves.

Too often, the home gardener forgets his pattern in his hurry to get the job done. Gift plants and "swaps" have a way of getting planted in the craziest places. Restraint should be the byword for the avid gardener—take time to consider the plan you have worked out for your garden.

Tidy plants help maintain the design by holding the lines of the basic pattern. Boxwood, heuchera, thrift, ageratum and candytuft are some of the plants that are excellent for the border and form a definite line. Iris-arians will find a place for the dwarf and median irises in this area.

Enclosure plantings also require a definite design. Shrub borders are fine



PEGGY EDWARDS' IRISES INTRODUCTION FOR 1971

MISS FIFFA. Sdlg. K 710. IB.
18". Basically a cream iris, she
has a flush of lavender through
the center of the standards, and
delicate veining running from
beard to edge of falls which
varies with the seasons from
deep gold to chocolate brown.
Beard is light yellow. Soaring
Kite X (Knotty Pine x Brassie)

\$10.00

JEALOUS BELLE .69. SDB.
Blue with green spot. Available
at \$3.00

VELVET NIGHT is not avail-
able from me — sorry.

Mrs. H. L. Edwards
235 Koehl St.
Massepequa Park, N.Y. 11762

KNOPF IRIS GARDEN

ROUTE L BOX 18-B

Potter Valley, Cal 95469

We will continue to have all
the Knopf Introductions

when young; but as they grow they can become uneven, billowy masses that blur the original pattern. A selection of shrubs in upright, compact and slow growing varieties is wise. Here in our temperate climate, we can grow some varieties of camellias and most of the hollies. The evergreen quality of these plants can be beautiful throughout the year. The variegation of aucuba and the euonymus family can add interest and eye appeal. In the informal garden, the luxuriant perennials can be used in bold masses—hardy asters, monarda, chrysanthemums and irises.

In planning the succession of bloom in the garden, space and time are the important factors. Instead of narrow 12-18 inch borders, plan 3-5 ft. areas. These can provide more charm and originality plus being a great deal easier to care for. With careful planting and arrangement of plants, the progression of bloom can present a garden to enjoy and be proud of throughout the year. There will always be something to look forward to.

A very basic plan for the boundary lines of your property where there is a fence or hedge planting is:

Compact plants to form the neat edging.

The foreground planted with low perennials, bulbs and annuals.

Behind the above, the lanced leaved plants—here is the place for taller irises.

The middle ground is for the midsummer bloomers.

The background area will carry the late asters and chrysanthemums; I like a few clumps of tall daffodils and irises traced through this area to make the spring bloom more total.

If you are planning a bed that will be more centered on your property and that can be viewed from all sides, center the tall plants and work out on all sides.

If you have ever looked at the bloom in your garden and felt a sort of disappointment and uneasiness, chances are that the color combinations were just not compatible. Color should be used to provide accent, balance, rhythm and sequence. Simplicity of effect is always important. A single color scheme is unnatural and too limited in scope. Complete pastel schemes are dull and lack vitality. Since one can rarely work with a flower in bloom when planting, copy existing color compositions. A large mass of color can be relieved by smaller groups of plants of a complementary color or creamy white. A favorite color can predominate, but do plant other colors to add spice and vitality.

In planting your irises, let the rules of color be your guide. Various blues and purples arranged together can create a feeling of sequence and continuity. Irises, peonies and lilacs are good companions. Oriental poppies (noted for their difficulty in being compatible) create a pleasing effect with pale lavender and white irises and lush green foliage. Irises in the perennial bed give line and intention with their erectness. The foliage of the Siberian and Japanese irises carry this line through most of the summer.

Arrangement of plants is a matter of personal taste and color relations are ever controversy-provoking. Cautions should be observed by the owner of a small garden in the use of blends and large dark-hued varieties. They are best as accents and should not monopolize the space for irises. The clear selfs in chosen colors, either light or dark, may be used lavishly.

In other words, use color and pattern in your garden much the same way you would choose your wardrobe. In the borders, remember that foliage is important. Green is a dependable peacemaker among strong lines.

We strive to live graciously in our homes so why not create a gracious garden.

Growing and Showing Irises in the Garden State

Mary Wais

New Jersey acquired its name, "Garden State," from its large vegetable growing industry. Since then two-thirds of this land has been consumed by industrial and housing developments. With the rapidly disappearing green acres, the status image has been to return to the land as a successful home gardener, so in reality we are still the "Garden State."

In many cases the first perennial to appear in these home gardens is the tall bearded iris. Why? For its ease of growth, its spectacular bloom, and bloom at a time when everyone is still garden conscious.

Every plant, like every human, has certain requisites which must be met to attain 100% performance. The tall bearded iris, its many shorter stemmed cousins, the medians, and the arilbreds and spurias, are all sun and lime loving plants. A sun loving plant should never be planted too close together, and should have open areas around each clump to absorb as much sun as your garden can afford. All lime loving plants like a well-drained soil, such as will grow a good vegetable garden.

The proper pH is 6 to 6.5. Yes, a TB iris will survive on soils from 4 to 8 pH, but we are not concerned with survival but with superior performance. The pH could, in the gardeners' language, be considered as a regulator; at each level of pH different chemicals are either released or tied up.

THREE NEW AIS PUBLICATIONS

1969 CHECK LIST. Registrations and introductions.
1960-69. \$6.50

1971 Registrations and Introductions for 1970. Contains
registrations and introductions made during 1970, plus some
pickup items. \$1.00

1971 Color Classification. 60 cents each; ten or more, 50
cents each. After setting the price, we added certain features
which we think will be helpful: 1. A color chart designed by an
artist, and 2. A peep-through mask with two windows to help
ascertain color free of extraneous influences. While these were
expensive, we plan to hold the above price for early deliveries.
The price will change with the July Bulletin.

Clifford W. Benson, *Secretary*
American Iris Society

2315 Tower Grove Avenue

St. Louis, Mo. 63110

It is necessary that the home gardener have his soil tested each year by his State Agricultural Experiment Station at Rutgers, through his county agriculture extension agent. When your soil recommendations arrive, follow them to the letter, and don't be a "wise guy" and apply two to ten times as much fertilizer as recommended.

Lime is applied in the fall, broadcast (spread) over the entire area. In the fall, there is a downward movement in the soil, making the lime really available. Fertilizer is applied each spring to the established beds — April or May, when the soil begins to warm up. Nitrogen becomes available really available in warming soils, and with its leaching properties, should be applied at active growth periods. Phosphorous moves downward about two inches a year and potash not much faster. This is another reason that lime, fertilizer and manure should be deeply incorporated in a newly established bed. All the necessary trace elements are incorporated in New Jersey fertilizers, so there should not be any minor deficiency. Our soils are old; they have been farmed (many times not well or wisely), consequently they may be depleted of plant-growing nutrients.

Every good exhibitor knows that manure makes the difference between good and superb bloom. Manure in soils is decaying vegetable matter, which gives the soil the proper tilth (texture), making fine granules, for proper balance of soil, and open areas for air and water absorption. The home gardener must be careful not to break down these granules by overtilling the soil; never work the soil when it is too wet and avoid prolonged exposure of bare soils to direct contact with sun, rain and wind. Certainly after bloom time, the middle of June until frost, there should be some type of low growth on exposed soil. In my garden it usually is weeds, but in fine gardens it may be any type of low growing annuals. This makes for fine soil management and gives fine garden color for the rest of

Landsend Iris Gardens
New for 1971
List on request

MIZPAH—Sdlg. 66-66-A, M. to L., 35". A large gleaming pure white flower, which is outstanding among the whites. Excellent form and substance, with flaring ruffled falls, well branched. This derived from a long line of breeding, involving Poet's Dream, Cliffs of Dover, Henry Shaw, Winter Olympics, Celestial Snow and Ice Follies. \$25.00

SILVER YEN—Sdlg. 67-28-A, 36", M. to L. The flower is basically the patina of old pewter, with an infusion of blue and clear green, with an all-over sheen of light grey, thus giving it the silver cast of old silver yens. All petal edges are ruffled and etched in burnished gold which gives it an iridescent glow. Beard is old gold, tipped silvery blue. \$25.00.

HARMONY PERVADES—Sdlg. 67-137, E. to M., 35". An outstanding bicolor with clear pink standards and violet falls, with a pink infusion; a very pleasing contrast and unlike any iris I have seen in this color class. Superb substance and form; falls ruffled and flaring. Good grower. Chosen Beauty x Broken Chord x Gypsy Lullaby. \$25.00.

VIRGINIA SALUTE—Sdlg. 63-112-C, 36", E. to M. A large wonderfully formed flower, with closed, lemon color standards and pure white flaring falls. All petal edges are crinkled and serrated; underside of petals and beard are bright gold. Strong grower. Won the A.I.S. Judges Certificate at Region 4 Convention in 1969. Apricot seedling from Dawn Crest x Garden Gold x Kingdom x Rainbow Gold. \$25.00.

Mrs. F. Allen Brown
4326 Grandin Road Ext.,
Roanoke, Va. 24018

the growing season. The root decomposition also adds decomposing organic matter to the iris bed. In July, there should be at least seven healthy, well-grown leaves per fan to set next year's bloomstalks. The more leaves per fan, the more bloomstalks.

How much manure should be applied to 1,000 sq. ft? Certainly not more than three wheel barrows annually. The manure should have had a chance to decompose for at least half a year before being broadcast over the entire area. Naturally the manure would be worth more if it could be incorporated into the newly established bed. Be prepared to skip a year when the plants indicate they are giving top performance. An iris, as a person or an animal, can be overfed, with the same disastrous results.

It is not always advisable to limit your gardening to one kind of plant. You lose too much of the gardening year. If irises are your love, then try some of the iris family that requires a more acid condition. Siberians thrive best in the range of pH 5. An established Siberian clump can easily have from 25 to 50 stalks, yearly. Japanese irises require a pH of 4 to 5, which is natural for most of our New Jersey soils. The Japanese iris is a superbly showy plant which could easily benefit from some high shade in midday. They bloom here in early July, when our weather can be very hot and dry.

The insect and disease problems of irises are not too difficult to control. A good contact insecticide will control borers. Rot is basically a wet and cloudy weather disease. All diseases need moisture to survive. I have seen just as much rot in beds which were not fertilized as in those which were. This year I saw considerable leaf spot in some of our finest iris gardens. A few early spring applications of fermate would control this disfiguring disease.

FERRIS D. GASKILL

MARGARET GASKILL

NEW FOR 1971

We have devoted much attention to combining excellent plant, stalk and flower characteristics, with full, clean, full orange coloring. Competent hybridizers, judges and fanciers have marked our success in attaining this goal.

SUNSET RIDGE (Gaskill '71). Sdlg. 768-20. TB. 34". M-L. Midwest Morning X Flaming Dragon. Brilliant, clean, full orange self. Wide, blazing red-orange beard. Closed standards. Semi-flaring falls. Gracefully ruffled. Fine width and substance. Very well branched. 8 to 12 buds. Vigorous dark green foliage. Splendid increase. Fertile both ways. HC '70. \$25.00

Write for collection offer of selected award-winning irises.

GREENBRIER FARM
(Established 1939)
COVERED BRIDGE ROAD

Box 232, RR 2

Barrington, Ill. 60010

The most difficult decision for the amateur gardener and judge is how to determine vigor in a plant. Always start from the bottom up. Healthy, rich colored leaves, flowering stem the thickness of two or three pencils, heavy wide branching, large bloom, rich color and heavy substance. Always check the caliper of these stems. If the stem is fat and sassy, the rest of the plant and bloom is usually excellent.

If you have a prolonged dry spell in May, a good watering, at least one week before the show, will be most beneficial.

Every successful rose and lily exhibitor starts cutting and refrigerating blooms two weeks before the show. Our New Jersey iris exhibitors have yet to learn pre-show cutting is essential to blue ribbons and the purple rosette. In the last four years, it has rained three nights before the show. Most of our modern irises can take quite a heavy thunderstorm, but then cut them immediately and place them in a dry area to allow them to dry. Prolonged wetness will ruin even the best varieties. Cut the stems at ground level, and possibly a great deal more than you are planning to exhibit. If the weather is hot and you are traveling a distance, the bloomstalk can be much different than when you cut it in the garden. Showing is gambling, but gamble to your advantage.

Transporting bloom is one of the most difficult tasks of showing. Each good exhibitor has worked out his own method in accordance with his temperament and his vehicle. Cases of whisky bottles is a good method. I was showing lilies in Canada. Getting into Canada was easy, but getting back into the United States was another matter. That customs official was sure that I was a rum runner, which hurt my pride no end, since I am a teetotaler. A friend of mine from Indiana put huge oriental lilies in gallon plastic jugs, traveled over 600 miles, won most of the top awards, and then the lilies were in such good shape the

HAMNER'S IRIS GARDEN

1040 PERRIS BLVD.

PERRIS, CALIF. 92370

INTRODUCING FOR 1971

APRICOT CHARM: (G. Mayberry). TB. 34". M-L. Deep apricot orange self, beautiful flaring form. Beard slightly darker orange. Valimar X Orange Parade. \$15.00

BECKY LEE: (Hamner). TB. 34-36". E-M. Complete ruffled self of peach pink. Tangerine beard. Very floriferous. Christy Ann X (Nike x New Frontier) HC. 1970. \$25.00

MOONLIGHT MAGIC: (Hamner). TB. 34". E-M. Heavily ruffled warm cream self with a narrow margin of faint peach on all petal edges and stylearms. Light tangerine beard. Beauty Secret X (Nike x New Frontier) HC. 1970. \$25.00.

REGAL PLUS: (G. Mayberry). Aril-Med. 12-14". E-E. This charming Aril-Med is very unique. The conical standards are pale lavender pink veined purple. The white ground falls have heavy onco veining radiating to end of falls. Beard is a very dark blackish brown. Helen's Child X Serona. HC. 1970. \$20.00.

PREVIOUS INTRODUCTION:

BURNING DESIRE: (Hamner 1970). TB. 32-34". Golden brown bitone. HC 1969. \$20.00.

Gift iris each order. *Price list on request.*

pollen was not disturbed a bit.

What does a show do for a Region? It gives the entire membership something to work together as a unit. Every member has some talent that can contribute to the show. Sometimes it takes the chairman a while to discover the talent, but believe me, it is there. It gives each member the chance to be a productive participant and not an unproductive spectator. We have found the need of trophies, donated by the membership, a necessity to produce a high class show. Last year, coming into the back door of Blake Hall around four o'clock, I could hear considerable chatting and laughing. Looking at the smiling faces and magnificent bloom, we had come a long way to a most successful show.

There are other advantages. If the show is highly publicized, as ours is, it gives the gardening public a chance to see the modern varieties and how well-grown irises should look. Even if ribbons are not your thing, show if only to compare your bloom with the best grown. Be honest with yourself, and see if you can't improve your culture and showing methods.

The show is the place to have educational displays on culture and hybridizing. You will be interested at how very interested the average person is in the creating of new varieties. Having the participation of juniors is to perpetuate our shows and interest in our flower. Never discount the advantages of artistic arrangement classes. This gives another denomination to the iris. A smiling face and a soft-spoken membership chairman can sign up a lot of new members, too.

The judge is a most dedicated person. Treat him well. When he arrives, have your most charming hostess serve a warm beverage and something sweet to eat. Give him a chance to rest a bit, and talk shop with the other judges. He is giving

KANSAS RAINBOW GARDENS

Robert R. Jeffries

807 Charles

Ellsworth, Kansas 67439

1971 INTRODUCTIONS

CHANCEL CHOIR (Jeffries '71). TB. 36". E-M. Sdlg. J65-53-B. Beautifully ruffled and fluted wide white self. White is pure and clean; no other color except a touch of yellow on the beard, deep in the haft area. Up to nine buds on wide three-way branching. Dark green-purple based foliage for added interest. The quality of its pollen parent plus vigorous growth and increase. All Eternity X Celestial Snow. \$25.00

SMOKY RIVER (Jeffries '71). Aril-med. 14". M-L in SDB period. Sdlg. J66-D3-A. Wisteria blue standards over light orange falls with full red-violet veining, pale blue signal and rim. Beard darker shade of wisteria violet. Lots of rich colors in this one. Branched with 3 to 5 buds. Brownie X J2764: Brownie x Truce. EC '69. \$7.50

1970 INTRODUCTIONS

SPICY MISSION, \$25.00; **DOUBLE MISSION**, \$20.00; **SPECIAL MISSION**, \$20.00; **LITTLE EMPRESS**, \$12.50; **BLUEBIRD'S SONG**, \$10.00. For complete description, see page 29 of the April 1970 Bulletin. All may be seen at the 1971 Convention Gardens in Wichita.

Order directly from this ad. Add \$1.00 for packaging and handling. Free iris with every order. Garden is state inspected and approved. Peak bloom around May 15. Visitors welcome.

program of judging. This is important for the future success of our shows. And incidentally, the proper nomenclature in America is show table and in England it is show bench. Their shows are superb, but they are staged differently than ours.

After being involved in ten different shows a year, it never ceases to amaze me of the flawlessness in our Flower Show System as it is explained in our AIS Flower Show and Judging Manual. And the absolute necessity to follow our AIS classification manual. Can you imagine what a nightmare it would be trying to classify the endless varieties without the manual?

It seems to me a judge has a right to expect the classification to be correct, the blooms entered in the proper class, with good staging practice, each entry having space to display it properly. It is advisable to display all exhibits at the same level. It is extremely difficult for even an experienced judge to judge on tiers of different levels.

We have found over the years of experience that the Queen of the Show, Purple Rosette and Trophy Classes should be judged by the accredited judges with a secret written ballot. This saves considerable disagreement and confusion, and each judge can give his own opinion without being swayed by someone else.

Hope you win a purple rosette soon.

Thank You, Medianites, and Others, for being so kind to my introductions.

Watch for most of the better ones as guests in your regional display garden and at Wichita '71.

NEW. LEMON CLICHE (Pewee x unknown). \$5.00

Dorothy E. Guild

9609 Shannon
REGION 13 OUT WEST WHERE THE IRIS GROW BEST

Spokane, Wash. 99206

PALETTE GARDENS'
INTRODUCTIONS FOR 1971

CUE (W. Newhard '71). EM. 36". Sdlg. 699-2 (Brave Viking X Winter Olympics). White self with white beard. Cue is a sister seedling to Winter Dreams, with the same good growth habits of Winter Dreams. The flowers are round and very wide of parts. Very popular here. HC '70. . . . \$25.00

The following listings are new introductions of Cora May Pickard. Mrs. Pickard has relocated in the East. She brought many exciting seedlings with her, which Palette Gardens will introduce in succeeding years.

MURMURING SURF (Pickard '71). Sdlg. C-566. 35". Late. (Sterling Silver X Blue Bounty.) Caribbean blue of the murmuring surf at eventide, with a sheen of Hong Kong silk. Ethereal yet strong and weather-wise. Large flaring blooms of rich color. A new blue. HC '70. \$25.00

BRIGHT AUTUMN (Pickard '71). Sdlg. C-6619. TB. 37". M-L. (Brass Accents X ((Palomino x Apricot Glory) X Limelight). Like a golden brown butterfly. Many large ruffled blooms, flaring falls and strong plant. HC '70. \$25.00

AUTUMN'S SISTER (Pickard '71). Sdlg. C-6619-A. TB. 30". M-L. Sister seedling to Bright Autumn. Medium size bloom. Smooth as satin. Light brown. Plant and bloom in proportion for the front row in the garden. \$25.00

LITTLE LOVE (Pickard '71). Sdlg. C-661. BB. 24". M-L. (Night Music X Ecstatic Night). Ruffled flaring falls and wide. Heavy substance. Good form. Blue-purple. And that extra something. HC '70. \$20.00

PALETTE GARDENS

26 W. Zion Hill Road
Quakertown, Penna. 18951

THE REBLOOMING IRIS SYMPOSIUM 1970

FREEZE-FREE GROWING SEASON

Total Points	Under 150 Days	150-180	181-210	211-250	251-300	Over 300
64 FALL PRIMROSE	12	25	21	7		
46 CAYENNE CAPERS				14	11	21
33 LOVELY AGAIN	7	14		6	6	
31 SKY QUEEN		6	2	17	5	1
23 LEORA KATE			2	7	14	
21 DA CAPO	4	11	7			
21 GOLD OF AUTUMN		3	7	7	4	
21 HALLOWEEN PARTY			21			
20 RED POLISH			13			7
20 SUMMER WHITEWINGS	4	4	12			
18 GRAND BAROQUE		7	11			
18 PREAMBLE		6		5		7
18 TWICE BLESSED	7	11				
17 SWISS MAJESTY			11	6		
16 AUTUMN ELEGANCE		16				
15 BLUE SURPRISE				6	9	
15 WHITE DUET		8	7			
14 EMMA LOUISA		14				
14 FIRST SNOWFALL			5	9		
14 GIBSON GIRL	5	4		5		
14 LACED DUET	7	7				
12 FALL MAJESTY		6	6			
12 JOSEPH'S MANTLE				3	5	4
12 SEPTEMBER CHEREAU		5		7		

BILL AND DOLLIE CARTER

512 So. 6th

Herrin, Ill. 62948

Our two 1970 introductions were so well received that we proudly present for 1971

BLAST OFF. Sdlg. 68-2. TB. 36". ML. White standards; dark blue falls. Wide and flaring. Showstalk branching. Excellent grower and fertile both ways. This one is for those who want to make the season last longer, as it is very late. Bon Vivant X Melodrama. \$25.00

DEAR DOLLIE '70. See description in July '70 Bulletin. Completely sold out last year; a few plants this year, but will sell out again this year. \$22.50

AMETHYST LACE '70. See description in July '70 Bulletin. Sold out last year; in plentiful supply this year. \$17.50

BLAST OFF and DEAR DOLLY \$45.00. All three \$55.00

Reasonable prices on newer irises. Write for list.

TERESA MARTIN INTRODUCES FOR 1971

DANCING EMBERS. TB. 36-40". M. 05D. A very bright henna or orange-tan, deep and glowing. It has form, substance, branching, vigor and — WOW — coloring we all like. This iris has performed well in California and in New Jersey, as in Ohio. From a raspberry seedling (Mary Randall x Court Ballet) X (Bang x Tomeco). \$25.00

Previous introduction: **AMY VERONICA** (T. Martin '68). TB. M-L. 32". OYIF. Beautifully formed, crisp, long-lasting greenish yellow from (Char-Maize x Queen's Lace) x Curl'd Cloud) X Green Chance. Much better quality than one would expect from the pollen parent. Amy Veronica has produced seedlings with ultra-broad, overlapping hafts. \$12.00

Order from Mrs. Dale Martin, 4520 Sharon-Copley Rd., Median, Ohio 44256

FROM MISSION BELL GARDENS FOR 1971

TALL-BEARDED

CANYONLANDS (Hamblen). Vivid apricot-yellow-white and amber blend. \$25.00

COUNTRY LILAC (Hamblen). Amethyst-lilac with red beard. . . . \$25.00

ORCHID FROST (Luihn). Diamond-dusted lavender-lilac; shrimp beard. \$25.00

ROYAL TRUMPETER (C. Reynolds). Velvety rich maroon-red; brown beard. \$25.00

VEGAS (Hamblen). Cool yellow self; deeper toned beard. \$25.00

MEDIANS

GINGER TART (J. Riley). MDB. Medium yellow; plic stipplings of ginger brown. \$7.50

GOBLIN (Hamblen). SDB. Antique gold; falls deeper with brown overlay and haft. Bronze beard. \$7.50

HONEY SPICE (Hamblen). BB. Laced bronzy-tan. Exceptional branching. \$10.00

PANSY TOP (Hamblen). SDB. Silky stds, vio-blue; falls spectrum violet edged Victoria violet. Vio-blue beard. \$7.50

RANGERETTE (Hamblen). SDB. Smaller version of its famous parent, Cherry Garden, with bushy rose-purple beard. \$7.50

STARFLIGHT (Hamblen). SDB. Ruffled light yellow with chartreuse-gold spot and blue tipped beard. \$7.50

SWEET SUZANNE (C. Hansen). IB. Lacy, dainty, baby-ribbon pink self. \$10.00

Free Catalog — No color — Available May 1

Jim and Melba Hamblen

2778 West 5600 South

Roy, Utah 84067

1971

THIRTY SECOND OFFICIAL SYMPOSIUM TALL BEARDED IRISES

We encourage all members to vote this ballot, so we may have a wide choice of the most popular tall bearded irises. Tear out these four pages, cast your votes, sign your ballot, and mail to your RVP before August 1. (The address of your RVP is on page 4 of this Bulletin.)

Because late arrival of ballots last year may have altered final results, we are including this year all varieties on last year's ballot plus those that come on as 1971 additions. Thus, the ballot includes (1) The top 100 varieties in the 1969 and 1970 Symposiums, (2) The Dykes Medal eligibility list of 1970 and 1971, TB only, (3) 1970 AM irises, TB only, (4) The AM eligiblity lists of 1970 and 1971, TB only, (5), The HM winners of 1970, TB only, and (6), The William Mohr Award winners (More TB than arilbred).

To vote, observe following instructions: (1) Do not vote for an iris you have not seen in bloom in a garden, (2) Place an X in front of each of your 25 favorites; thus X. Second members of a family membership, place an O in front of your 25 favorites. If there are other members of the family holding family membership, they may use 1, 2, 3, etc. (3) Do not vote for more than 25. You may vote for fewer. (4) You may vote for five varieties not listed, in addition to the 25 selected from the list. (5) Mail your ballot to your Regional Vice President before August 1, after signing the ballot. Send first class mail.

NAME _____

ADDRESS _____

CITY AND STATE _____ ZC _____

**TEAR OUT THESE FOUR PAGES
VOTE YOUR 25 CHOICES
MAIL TO YOUR REGIONAL VICE PRESIDENT
BEFORE AUGUST 1**

VARIETIES ELIGIBLE FOR THE SYMPOSIUM—1971

... ABOVE ALL	... BROTHER ED	... COLLEGE QUEEN
... ACORN	... BUFFY	... COMMENTARY
... AD ASTRA	... BURNING COALS	... CONGO QUEEN
... AIR DE BALLET	... BUTTERSCOTCH KISS	... COOLHEAD
... ALASKAN CROWN	... BUTTERSCOTCH RIPPLE	... CORABAND
... ALASKAN SUNSET	... CALIENTE	... CORALAIRE
... ALL AFLAME	... CAMBODIA	... CORAL GLOW
... ALLEGIANCE	... CAMELOT ROSE	... CORAL ICE
... AMETHYST FLAME	... CAMPUS FLIRT	... COUNTRY SQUIRE
... AMIGO'S GUITAR	... CANARY CADENCE	... COUNTY DOWN
... ANGEL BRIGHT	... CANARY FRILLS	... COUNTY FAIR
... ANNABEL LEE	... CANDY COUNTER	... CRAFTSMAN
... APOLLO'S GIFT	... CAPE TOWN	... CREDO
... APRIL MELODY	... CAPTAIN GALLANT	... CRINKLED BEAUTY
... APROPOS	... CARILLON FESTIVAL	... CRINKLED GEM
... ARCTIC FURY	... CARMEL KISSES	... CRINKLED JOY
... ARCTIC TORCH	... CAROLANDS	... CRINOLINE
... ARPEGE	... CAROLINA PEACH	... CROSS COUNTRY
... ARPEGGIO	... CAROLINA RUBY	... CROWNING GLORY
... ASPEN COUNTRY	... CARVED ALABASTER	... CRYSTAL BLAZE
... AVIS	... CAYENNE CAPERS	... CRYSTAL FLAME
... AZURE APOGEE	... CELESTIAL GLORY	... CUP RACE
... AZURE LACE	... CELESTIAL SNOW	... DAISY POWELL
... BABBLING BROOK	... CELESTIAL SWAN	... DANCING RILL
... BACCARAT	... CERAMIC BLUE	... DARK FURY
... BANDOLIER	... CHAMPAGNE MUSIC	... DASHING PRINCE
... BANG	... CHARCOAL	... DEBBY RAIDON
... BARCELONA	... CHARLOTTE SAWYER	... DEBRA JEAN
... BAYBERRY CANDLE	... CHARMAINE	... DELICIOUS
... BAY VIEW	... CHARMED CIRCLE	... DENVER DAWN
... BEAUX ARTS	... CHARM OF EDEN	... DENVER MINT
... BERCEUSE	... CHERRY JUBILEE	... DESEREE
... BERMUDA HIGH	... CHERRY MALOTT	... DIPLOMACY
... BEWITCHED	... CHERUB CHOIR	... DIPLOMAT
... BEWITCHING	... CHIEF MOSES	... DISTANT DRUMS
... BIG LEAGUE	... CHIM CHIM CHEREE	... DISTANT HILLS
... BILL NORMAN	... CHINESE CORAL	... DOGE OF VENICE
... BLACK PANSY	... CHINQUAPIN	... DOT AND DASH
... BLACK SWAN	... CHORDETTE	... DRAGON LADY
... BLEWETT PASS	... CHRISTMAS ANGEL	... DREAM TIME
... BLUE BARON	... CHRISTMAS TIME	... DRESDEN FRILLS
... BLUEBEARD'S CASTLE	... CIMARRON STRIP	... DRESS SUIT
... BLUEBELL LANE	... CINNAMON MIST	... DUSKY DANCER
... BLUE CHIFFON	... CIRCLE D	... EASY STREET
... BLUE LEATHER	... CLAREMONT CLASSIC	... ECHO ONE
... BLUE PETTICOATS	... CLAUDIA RENE	... EDENITE
... BLUE SAPPHIRE	... CLOUD CAPERS	... ED WATKINS
... BRASS ACCENTS	... CLOUD CREST	... ELEANOR'S PRIDE
... BRIGHT BUTTERFLY	... CLOUDLAND	... EL GRANDE AZUL
... BRIGHT SHIELD	... CLOVERDALE	... EMMA COOK
... BRISTOL GEM	... COCKTAIL TIME	... EMMA LOUISA

... EPIC	... GRANDIFLORA	... LAVENDER SPARKLE
... ERMINE ROBE	... GRAND SPECTATOR	... LEDA KNIGHT
... ESTER FAY	... GRAPE FESTIVAL	... LEMON TREE
... ETCHED APRICOT	... GREEN ILLUSION	... LICORICE STICK
... ETERNAL FLAME	... GYPSY LULLABY	... LIGHT AND LOVELY
... EVE	... HALLELUJAH TRAIL	... LIGHT FANTASTIC
... EVER AND EVER	... HAPPY BIRTHDAY	... LIGHTNING FLASH
... EXECUTIVE	... HARMONY HOUSE	... LIGHTNING RIDGE
... EXOTIC WINGS	... HAWAIIAN HOLIDAY	... LIGHT TOUCH
... FANFARE ORCHID	... HEATHER HALO	... LILAC CHAMPAGNE
... FASHION FLING	... HEATHER HAWK	... LILAC FLIRT
... FAVORITE TOPIC	... HEAVENS ABOVE	... LILAC MIST
... FINAL TOUCH	... HEAVEN SENT	... LIME FIZZ
... FIREBALL	... HENRY SHAW	... LIME SHADOWS
... FIRST SNOW	... HIDDEN MAGIC	... LORD BALTIMORE
... FIRST VIOLET	... HIGH ABOVE	... LORNA LEE
... FLAME AND SAND	... HIGH COUNTRY	... LOVE LETTERS
... FLAMENCO DANCER	... HIGH ESTEEM	... LUCILLE TOLMAN
... FLAMING DRAGON	... HIGH LIFE	... MAD MAID
... FLAMINGO DAWN	... HIGH PRAISE	... MAHALO
... FLAMING STAR	... HIGH SIERRA	... MARGARITA
... FLAPPERETTE	... HONESTY	... MARIACHI
... FLASHING GEM	... HONOR GUARD	... MARQUESAN SKIES
... FLIGHT OF ANGELS	... HOT SPELL	... MARSHMALLOW
... FLUTED HAVEN	... IMPACT	... MARTEL
... FLUTED LIME	... INDIAN FRINGE	... MARVALON
... FOGGY DEW	... INDIGLOW	... MAUDIE MARIE
... FOND WISH	... INDIGO IMP	... MARY RANDALL
... FOUNTAIN BLUE	... INTEGRITY	... MASCARA
... FRENCH LACE	... IRENE NEECE	... MATINATA
... FRONTIER MARSHALL	... IRISH BROGUE	... MAY MELODY
... FROST AND FLAME	... IRISH CHARMER	... MEDITATE
... FUJI'S MANTLE	... IRISH LULLABY	... MELODRAMA
... GALA MADRID	... IVORY GOWN	... MERRY RIPPLE
... GALA ROSE	... JAILBIRD	... MIDWEST MORNING
... GAY LIGHTS	... JAIPUR	... MILADY
... GAY TRACERY	... JAKARTA	... MILESTONE
... GENTLE PERSUASION	... JANNI	... MINNESOTA GLITTERS
... GENTLE PRESENCE	... JAVA DOVE	... MISS ILLINI
... GINGERBREAD CASTLE	... JEWELLED FLIGHT	... MISS INDIANA
... GINGERSNAP	... JEWEL TONE	... MISS SALTILLO
... GLACIER SUNSET	... JILBY	... MOLTEN EMBERS
... GLAZED ORANGE	... JODY	... MONTE SANO
... GLOWING TIARA	... JOLIE	... MOONLIGHT AND ROSES
... GOLD CITATION	... JUANITA T	... MOON RIVER
... GOLDEN CHORD	... JUNA KAY	... MORNING KISS
... GOLDEN FILIGREE	... JUNE SYMPHONY	... MOST PRECIOUS
... GOLDEN OPPORTUNITY	... KIMZEY	... MOUNT EDEN
... GOLDEN PLUNDER	... KINGDOM	... MULBERRY WINE
... GOLDEN SENSATION	... KISSABLE	... MUSIC HALL
... GOLDEN SHOULDERS	... KISS OF LEMON	... MUSIC MAKER
... GOLDEN SNOW	... LADY MOHR	... MYSTIC MAID
... GOLD LIGHTNING	... LAKE WASHINGTON	... NEW MOON
... GOOD HOPE	... LASATA	... NEWPORT
... GOODNESS	... LATIN LOVER	... NIGHT HERON
... GRACIE PFOST	... LAUNCHING PAD	... NIGHTSIDE
... GRAND ALLIANCE	... LAURIE	... NIGHT SONG

... NINA'S DELIGHT	... ROYAL GOLD	... TIJUANA BRASS
... NINEVEH	... ROYAL HERITAGE	... TINSEL TOWN
... NOB HILL	... ROYAL TARA	... TOMTEBO
... NORTHERN AIRE	... ROYAL TOUCH	... TONI MICHELE
... OCEAN SHORES	... SABLE NIGHT	... TOUCHE
... OCTOBER ALE	... SABLE ROBE	... TROPIC ISLE
... OLYMPIC TORCH	... SAFFRON ROBE	... TRUDY
... ONE DESIRE	... SAN LEANDRO	... TUXEDO
... ORANGE ICING	... SAPPHIRE DREAM	... TYCOON'S GOLD
... ORANGE PARADE	... SAPPHIRE FIZZ	... ULTRAPOISE
... ORANGE VISTA	... SAUCY SUE	... UTAH VALLEY
... ORCHID BROCADE	... SCARLET RIBBON	... VASHON
... ORINDA	... SEABORNE	... VAUDEVILLE
... OVATION	... SEANCE	... VELVET BRASS
... PACIFIC PANORAMA	... SEASIDE	... VIOLET HARMONY
... PACIFIC WATERS	... SECRET AGENT	... VISITING NURSE
... PALISADES	... SEVEN LEAGUES	... VITAFIRE
... PANORAMIC	... SHIPSHAPE	... WANDERING RAINBOW
... PARISIAN BLUE	... SHORT STORY	... WARLOCK
... PATRICIA CRAIG	... SHOWMASTER	... WAR LORD
... PAWNEE PRIDE	... SIGNATURE	... WAYWARD WIND
... PENTHOUSE	... SILENCE	... WENATCHEE SKIES
... PIERRE MENARD	... SILVER SKIES	... WENATCHEE VALLEY
... PIETY	... SILVER TRAIL	... WEST COAST
... PINK BALLET	... SILVER WEDDING	... WESTERN HOST
... PINK DIVINITY	... SINGING PINES	... WHITE KING
... PINK FRINGE	... SKYDIVA	... WHITE TAFFETA
... PINK HORIZON	... SKYWATCH	... WHOLE CLOTH
... PINK TAFFETA	... SMART SET	... WILD APACHE
... PINNACLE	... SMOKY MOUNTAIN	... WILD GINGER
... PIRATE TREASURE	... SON OF STAR	... WILD MUSTANG
... POINT CLEAR	... SOUND OF MUSIC	... WILD PLUM
... POP O' SHA	... SOUTHERN COMFORT	... WINE AND ROSES
... PORT ROYAL	... SPANISH GIFT	... WINTER OLYMPICS
... POST SCRIPT	... SPARKLING CHAMPAGNE	... WINTER PAGEANT
... POWER AND GLORY	... SPLASH O' PINK	... WINTRY NIGHT
... PRETTY CAROL	... STARBURST	... WITH IT
... PRETTY POISE	... STEPPING OUT	... XMAS FIRES
... PRINCE INDIGO	... STERLING SILVER	... YANKEE BOY
... PUNCHLINE	... STRANGE MAGIC	... YES SIR
... QUETTA	... STUDY IN BLACK	
... RADIANT APOGEE	... STYLE MASTER	Write-in Votes
... RADIANT LIGHT	... SUN COUNTRY	
... RADIANT SUN	... SUNNY SPLENDOR	
... RAINBOW GOLD	... SUNSET BLUES	
... RAINBOW VALLEY	... SUPERGLOW	
... RASPBERRY RIPPLES	... SUTTER'S FALLS
... REPORTEE	... SWAHILI	
... RESTLESS WAVES	... SYMPHONETTE
... RETA FRY	... TAFFY TWIST	
... RIBBON ROUND	... TALENT SHOW	
... RIPPLING WATERS	... TAMBOURINE
... ROBIN REDBREAST	... TASTE OF HONEY	
... ROCOCO	... TAWNY MINK	
... ROSEANNE	... TEA APRON
... ROSES IN SNOW	... TECHNY CHIMES	
... ROYALAIRE	... THRUWAY

NEW RVPS

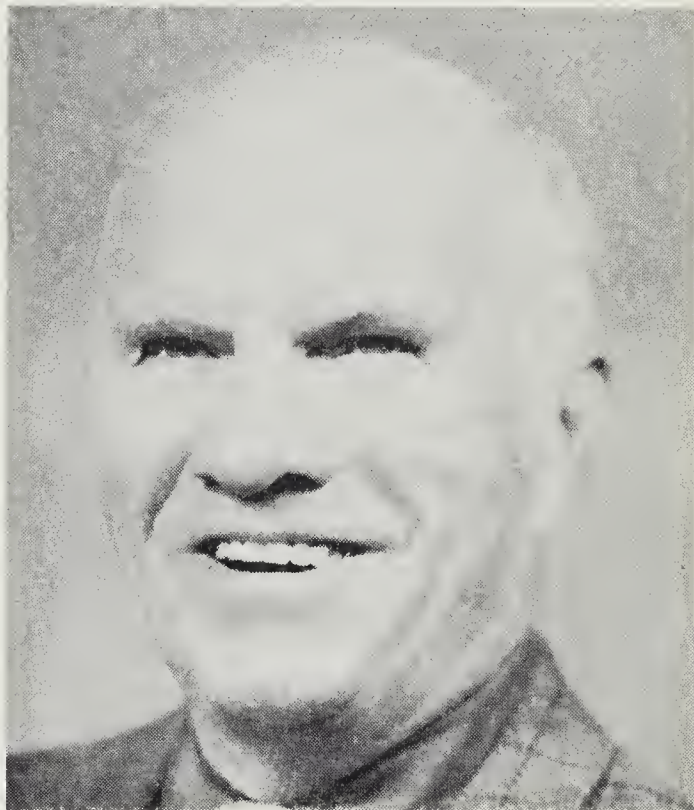
REGION 3 — Mrs. Theodore Shiner

Mrs. Shiner remembers when Mr. and Mrs. Shiner bought their home in Pennsylvania that there were “flags” in the garden. She saw an ad in a New York Herald-Tribune many years ago, and bought a bargain offer of six irises, including ANGELUS. Since then she has been a busy irisarian. She joined AIS in 1958, and has attended regularly the Region III tours, meetings and auctions. She started editing the Region III Bulletin in 1965. She is a member of twelve robins, and directs one of them. She grows over 1,000 varieties of irises.

REGION 4

William D. Kelley

Bill Kelley, a native West Virginian, is a registered Professional Engineer, practicing in the field of Sanitary Engineering, with the consulting engineering firm of Kelley, Gidley, Staub and Blair, of Charleston-Lewisburg, W. Va. He has been a member of AIS for nearly twenty years, and has served as area chairman and Region treasurer. He was awarded the Horticultural Award of the West Virginia Garden Club in 1967 for his work with re-blooming irises.



REGION 6 — Harold L. Stahly

“Hal” Stahly grew up in Nebraska, and now is an educational psychologist, and Chairman of the Department of Teacher Education of the University of Michigan at Flint. He and his wife, Dorothy, have five children. He has been growing irises since about 1950, and has grown many iris seedlings, and among these, in his own words, a few that were good, but not good enough. He has been active in the Central Michigan Iris Society, and is interested in all levels of Society work, local, state and national.

REGION 8 — W. G. Sindt

“Gus” has a number of worthy accomplishments. He holds a BA degree from Macalester College, and is the Supervisor of 3M Co. Abrasive Laboratory Quality Control. He has grown irises for over 30 years, and is a Senior Judge in AIS. He is an accredited judge of gladiolus, a certified judge of horticulture and design of the Minnesota Horticultural Society, and past president and honorary member of that society. He is president of the American Peony Society, and organizer and first president of the Twin City Iris Society. The people in Minnesota speak of him as the expert in show affairs.

REGION 9

E. H. T. Drake

Tracy Drake is a graduate chemist, with graduate work at the University of Illinois and Western Reserve University. He is retired from his work in the protective coating field, but in retirement he is engaged as Technical Representative for Reliance Universal.

He has grown plants all his life, and he and his wife, Mary, concentrate their main efforts on irises and tetraploid hemerocallis. He insists on vigor, and plants that need coddling soon are replaced. Mrs. Drake and Tracy have other common hobbies — photography and fishing for muskelunge in Northern Wisconsin and snook in Florida.



REGION 12 — Herbert J. Spence

Herb Spence in professional life works for the Air Force. His interest in flowers started in childhood, influenced by his mother's gardening activities. He is a 1948 graduate of the University of Nebraska, with a major in theatre arts, and his interest in irises began in the late 30's in Western Nebraska. In 1959 he began hybridizing irises, and some of his recent introductions are DRESS SUIT, COUNTRY GIRL, SPANISH EYES and THEATRE ARTS. He served two years as president of the Rainbow Iris Society, three years as Area Chairman in Region 12, and is co-editor of last year's regional Yearbook.

REGION 14 — Marilyn Holloway

Mrs. Mac W. Holloway has grown irises since 1951, and her mother grew irises for many years before that. Marilyn started by joining the local society, and found her interest growing to the point that she joined AIS. She started with TB irises but since has branched out to many other types of irises. Marilyn is a native Californian, and has worked for many years for the Bank of America. She is married and has a teenage daughter. She served as president of the Sacramento Iris Society for three terms, and as secretary-treasurer and second vice president of the Spuria Society.

REGION 18 — J. Donald Puett

Donald Puett, until his retirement recently, was employed for forty-six years with the Empire District Electric Company, of Joplin, Missouri.

He has been actively growing irises for the past fifteen years, among which are TBs, medians, Siberians and spurias. He has done some hybridizing in the last six years. He has been a member of AIS since 1961, and both he and his wife are past presidents of the Tri-State Iris Society. His other hobbies are stamp collecting and photography. He has attended five of the last seven national AIS conventions.

REGION 20 — Dr. Carl J. C. Jorgensen

In Carl Jorgensen Region 20 has a distinguished scientist. In the field of irises his research has been primarily in germination and inhibitors to germination. He has attended a long list of distinguished American Universities, and has held positions with an equally notable list of schools. Currently, he is an associate professor of horticulture at Colorado State University and landscape consultant and arborist for the City of Fort Collins. He spent two years in research in Columbia, South America. He is interested in producing a flowering seedling from seed in less than one year, and is doing serious study on inheritance in irises.

REGION 22 — Hoyt T. Smith

Hoyt Smith steps into the position of RVP after being Assistant RVP for three years. He is past president of Central Arkansas Iris Society, and he was instrumental in establishing the C.A.I.S. Display Garden on the state capitol grounds at Little Rock. He has conducted judging schools, and he and his wife, Edith, are regular attendees at the national convention.

Hoyt and Edith grow nearly 700 varieties of irises, including tall bearded, medians, dwarfs, as well as some arils, spurias, Japanese, Louisianas and various species. Their garden is open to all during the entire bloom season, and you may be sure of a warm welcome at any time.

THE ORANGES — COMING OF AGE

Roger R. Nelson

Orange irises have been grown in fanciers' gardens for over twenty years, but progress in this class did not clearly become discernible until the years 1961-1962. Three great orange irises made their debut during these two years and all went on to attain the coveted AIS Award of Merit. Without the production of these three varieties, real advancement in color, form, and growth would not have been ours to enjoy today.

Let us first examine the fine Brother Charles introduction, CELESTIAL glory (1961). Here for the first time growers could enjoy a flower with full ruffled form and heavy substance, and a variety whose color remained a clean and bright orange blended golden tan. The beard was very large and a showy deep red, and the healthy plant produced adequately branched stems carrying 6-8 buds. However, all was not perfection here, for CELESTIAL GLORY did not always come through Midwest winters in good shape. In fact, two and three-year clumps had to be covered well, or much loss would result.

The second variety to share the limelight at this time was the Hamblen variety, ORANGE PARADE (1961). Melba Hamblen truly had given the iris growing world a startling deep vivid orange variety here, with both ruffled and somewhat laced form. The beard was even a deeper orange, and very showy on the broad, semiflared falls. The plant always seemed to grow with much ease in most areas of the country; and the stem consistently branched quite well, producing three branches and again 6-8 buds. ORANGE PARADE did have faults as all varieties do. Some seasons the color was rather dull and smoked in appearance; and often during these same seasons the form would suffer with the standards opening unevenly and irregularly, producing a somewhat unbalanced effect.

The third giant step forward in orange was Orville Fay's strong pinkish orange, CHINESE CORAL, (1962). This newcomer was very clean and bright in appearance, with more pink showing in the standards than the falls. It grew very well and produced a strong stem, with 8-10 buds on well-placed branches. It added a further dimension to the oranges, for CHINESE CORAL bloomed later than the other two previously mentioned varieties. Here, too, a fault was evident, for although its form was very broad in appearance, CHINESE CORAL was lacking in ruffles and flare.

The next wave of improvement was not apparent in this class until the discovery of PRAIRIE BLAZE, a Jim Marsh origination released through Steve Moldovan in 1964. Here was the much sought very deep and bright orange color all irisarians were searching for. But with its introduction came many problems—problems which nearly crippled any widespread popularity for the variety. Despite magnificent color and near perfect form, PRAIRIE BLAZE refused to grow and bloom properly in nearly all parts of the country. Coupled with this was a problem of wintering the variety in Midwest gardens.

However, this same year, 1964, Orville Fay brought irisdom a more progressive step in orange by releasing ORANGE CHARIOT. This variety was produced from a direct cross of CHINESE CORAL X PRAIRIE BLAZE. The following year Mr. Fay followed with still another orange in RADIANT LIGHT, from the same cross. Both of these varieties displayed the great advancement that Mr. Fay was seeking when making the cross. ORANGE CHARIOT remained lighter than PRAIRIE BLAZE in color, but had more genuine orange coloration than CHINESE CORAL. RADIANT LIGHT had even deeper, more distinctly recognized bright orange color than its sib, ORANGE CHARIOT; but it fell short in the dependability category, failing to bloom every year. Both have maintained very complementary growth habits, a trait definitely lacking in PRAIRIE BLAZE.

Before drawing his iris hybridizing career to a close, Brother Charles realized much success in the orange class when he released MISSION SUNSET. Here he had an iris with an unmistakable "hot" gold-orange color, highlighted by a wash of chartreuse in the falls and a deep true red beard. Again the perfect variety had not been attained; for despite the alluring charm of its individual flowers, MISSION SUNSET proved very tender as a plant in the Midwest, often suffering in the spring from winter damage. A first generation descendent of CELESTIAL GLORY, MISSION SUNSET is surely destined to appear in future orange iris lineages.

George Shoop of Portland, Oregon, quietly slipped on to the orange scene in 1965, with a warm, glowing bright self called SPANISH GIFT. Unfortunately, it took until the 1968 to 1969 blooming seasons across the country for this ultra vigorous, healthy plant to be discovered. Continuing to grow in popularity today, SPANISH GIFT seems weak only in the production of flowers with slightly open standards, which in this instance cause an irregular, unbalanced form.

In 1967, another "Portlander", Bennett Jones, supplied the orange iris family with its brightest, most spectacularly formed member to date, BRIGHT BUTTERFLY. Here the orange fanciers finally had a super formed thing with lace and ruffles galore. But, alas, this gem proved to be as poor in general performance as PRAIRIE BLAZE. The super orange was nearer, yet still some distance away.

Nineteen sixty-eight brought Gordon Plough to the orange spotlight with

FLAMING STAR. Again noteworthy for brilliance and depth of orange color, this direct descendent of ORANGE PARADE easily shone like a beacon across the garden. It further produced a plant that grew as vigorously as its color shone. Although it, too, is a variety still gaining many new friends each season, FLAMING STAR is marred by open standards that produce a flower that appears "loose" and irregular.

Jim Marsh was not pleased with PRAIRIE BLAZE and its list of deficiencies; and thus, in 1968 he presented an offspring from the PRAIRIE BLAZE line — MOLTEN GLASS. Major improvements have been quickly noted in this variety — color is a deep, rich orange — form is wide and quite ruffled — the stem is strong and well branched — and the plant is *very* healthy and vigorous. However, MOLTEN GLASS is a border bearded variety, and this does not suit the *all* tall bearded growers. They will await the release of his tall bearded "step forward", seedling 68-1. This beauty will offer much from its lineage of RADIANT LIGHT X ULTRAPOISE.

And now, what is left to be mentioned? What is new or sparsely distributed? Four varieties seem paramount to yet mention — LIGHTNING FLASH (Schmelzer 69), SON OF STAR (Plough 69), BAROQUE (Phenis 70) and HAYRIDE (Jones 71). All four are blessed with a fine lineage of previously recognized parents, and all are receiving "Star Billing". Improvements range in the descriptions of this group from a focus on greater brilliance and depth of color in SON OF STAR and LIGHTNING FLASH, to smoothness, great vigor, and increased breadth of petals in BAROQUE and HAYRIDE. These are basically untested in all parts of the country to date, but all have many favorable traits incorporated in their backgrounds. Thus, one must keep watching this orange class — it is coming of age!

The Iris; A Defensive Weapon.

Bill Gunther

We often hear, from non-irisarians, that our favorite plant has no real practical functional value. But that evaluation is not always true. For instance, it is not true in the case of people who live in old castles.

Dr. Shuichi Hirao is the foremost irisarian of Japan. Dr. Hirao, or "Shu" as he is known familiarly, reports that *Iris japonica* is especially common on the slopes of those hills in Japan on which there are castles. He explains that the irises were planted on those hills, centuries ago, by the people who built the castles.

They planted *Iris japonica* because it has slippery foliage, which gives a practical functional value to the plant.

Enemies rushing up the slope to attack the castle would slip and fall when they reached the japonicas. While thus floundering, they were very vulnerable to spears which were thrown at them from the parapets. The irises caused them to lose face.

So really, irises can be functional. They can serve as a defensive moat for you — provided that you live in an old castle up on a hill.

WICHITA - 1971 — OREGON - 1972

IRIS SHOW IN NOVEMBER

At the end of a howling Nebraska blizzard, one in which we had no mail delivery for three days, there came to our desk the news of a Reblooming Iris Show held November 15 at San Diego, Calif. Such a favored climate.

Mrs. Margaret Howard won *Queen of Show* with WESTERN HILLS, and the runnerup was Robert Hubley with DARK MYSTERY, who also won the silver medal, with Mrs. Howard winning the bronze medal. Edward Owen won the best non-bearded award with WORLEY PINK. Mrs. Gordon Tinker displayed the best arrangement of the show, and Mrs. N. Reavis Carrington was awarded the educational certificate for an interesting and instructive feature on iris development.

The Region 15 spring meeting will be held in San Diego on May 1, at the Holiday Inn, Mission Valley.



Thomas Ford, Editor

Articles, features and photographs for, by or about irisarians under 19 will be published in this section. Please send your contribution to Youth Views Editor, Mr. Thomas Ford, 12627 Oxon Road, Herndon, Virginia 22070.

Dig This - Soil!

Tom Ford

What do we know about soil? We know it is terribly important to all of us; as important as the water we drink and the air we breathe. It gives us the food that is fuel for our bodies and the ornamental plants that are food for our souls.

MORE HERE THAN MEETS THE EYE . . .

People who understand physics and chemistry tell us that the word soil is applied to the loose upper layer of the land surface of the Earth, which is composed for the most part of disintegrated rock mixed with different amounts of decayed organic matter — the remains of dead plants and animals. The rocks have decomposed as a result of countless ages of weathering, through such influences as exposure to rain, wind, and alternate freezing and thawing. The depth of the soil varies from zero (in places where the rock itself forms the surface) to many feet in regions where soil has been carried and piled up by the action of water and wind.

Dig down and you will find that the soil is divided into definite layers, one above the other, with different colors and textures. For instance, often a foot of

sandy soil overlies several feet of clay soil. The upper layer, called topsoil, is, as a rule, darker in color than the lower layers because of its higher content of decaying vegetable and animal matter. In this upper layer, life in such forms as bacteria, fungi, insects and other small organisms is most abundant.

The layer below the topsoil is the subsoil. It is harder to dig when dry, and often is stickier when wet, owing to its higher clay content, much of which has been washed out of the topsoil. The subsoil often has a brighter color, due to the red oxides of iron and other elements that have washed down. Below these two layers, which make up the true soil, lies the mineral matter that may be solid bedrock or may be loose and porous to great depths.

SOIL IS NOT A DIRTY WORD . . .

The soil serves three purposes in the life of a plant. It forms an anchorage for the roots so that the plant is held firmly in position. It supplies the water used by the plant and it affords certain elements necessary to the plant's growth and well-being.

The bulk of most soils consists of small particles of rock (up to 90% of the weight of most good soils). This is the component which furnishes the anchorage for the roots. Minerals are slowly dissolved from the surfaces of these rock particles and are absorbed by the plant.

HAPPINESS IS A WARM BLANKET OF . . .

Humus is the name of all decayed vegetable or animal matter in the soil. The darker color of topsoil comes mainly from humus which has become mixed in the soil and has gradually decayed and broken down into simpler substances such as carbon dioxide, water and ammonia. Humus not only liberates nitrogen compounds and other nutrients which become available to the plant, but it also forms the food supply for the soil bacteria which are essential in plant growth. Because of its loose makeup, humus separates the soil particles and increases the air content of the soil. Due to its spongelike properties, humus absorbs water readily, adding to the water-holding capacity of the soil.

IT FALLETH AS THE GENTLE RAIN . . .

Soil water contains in solution a great variety of substances, many of which are absorbed by the root hairs of the plant. All material absorbed by the plant must be in solution. The soil water attacks and dissolves not only the surfaces of the rock particles, but also takes into solution any soluble material which may be formed in the humus or as a result of bacterial activity

GIMME AIR . . .

The presence of a plentiful supply of air in the soil is essential for plant growth. If the spaces between the soil particles become filled with water, most of the air is driven out; when there is too much water over a long period, ordinary land plants suffer. Working the soil tends to increase the air content as does the addition of humus.

I'LL GIVE YOU ANYTHING YOU WANT, IRIS . .

No one soil is ideal for every type of plant — that's why we have plants that are found in one area and no other. Plants, down through thousands of years, have specialized their growth habits to the soils in which they have been growing. Those that haven't adapted have either become extinct or their seeds have been carried to more favorable



Gasp! Where's the life-guard?

areas through the action of the wind, flowing water or animals and birds. In our gardens we find it necessary to give plants the soil they want when we bring them from their native areas.

SCRAPE IT OFF, SCRAPE IT *ALL* OFF . . .

Unfortunately, many of us find the soil in our garden not the ideal medium for growing irises. Some find the soil is naturally too acid or too alkaline, and this must be remedied. Some find that the soil has been growing plants for too long and all the nutrients have been used up. Sadder still is the gardener who moves into a new home to find that the builder has stripped off the topsoil and left a mess that may be all subsoil with no nutrients and poor drainage.

MOTHER NATURE, REGISTERED NURSE . . .

Our problem, then, is to improve what we have. Practically any soil, or mixture of soil and subsoil, can be improved by appropriate treatment. Nature, when left to her own way, continually improves the land if man does not interfere. In these days when so many notoriously damaging practices by man are being pointed out, we sometimes fear that even Nature will not find a way to repair the damages done. I like to believe she will; she's been doing the job for millions of years. Bare landscapes have been turned into lush forests and it's been done through the laying down of mineral and vegetable matter such as the leaves from the trees in the forest that each fall add to the fertility of the soil.

DIAGNOSIS, PLEASE, DOCTOR . . .

Probably the most important thing to do when improving your garden soil is to ask the advice of a county agent or some other soil expert. Soil tests are very important because they can tell you what your soil needs. Usually county extension service for soil tests are free or have a very small charge. It was gratifying to find that my own county agent was more than happy to run a soil test for me after I'd been putting it off for years, thinking it would be a complicated business and a bother to a busy man. It was easy: I just called the extension office and they sent the box for a little soil sample and a very uncomplicated form. In one week I had the results and knew just what and how much lime, fertilizer, etc., to use.

Unless you're gardening in a pure woods soil that is mostly leafmold, you will find that adding humus to the soil is the single most effective improvement. There are many types to be used. Probably the cheapest and best are compost and leafmold. Generally speaking, any treatment of the soil which increases its humus content tends to increase fertility. Peat moss is good humus, but its use is limited by its relatively high cost if much must be used, and by the fact that it tends to make the soil overly acid. Activated sludge is very good if it can be gotten. In our area it's free for the taking at the local sewage disposal plant. Well-rotted sawdust is good, but it should be dark—fresh sawdust can deplete soil nitrogen, so if you can get only fresh, then supplemental nitrogen should be added.



*Yum! Leaf mold au jus
and select sawdust.*

YOU MIGHT NOT BE ABLE TO DIG THIS . . .

Old-time garden books often recommend adding sand to clay soils to make them more workable, but this can be costly and hazardous. If too little sand is

used, clay flowing between the grains acts like cement, making the soil hard and unworkable. A very coarse sand would be better than fine sand. You may be in trouble if the ratio of clay to sand is less than one to three. The use of humus with lime is best since lime pulls clay particles together in little clumps and the humus tends to separate these clumps one from the other in the soil.

POPULATION EXPLOSION . . .

All good soil teems with countless millions of minute living organisms. These organisms, in the course of their growth and multiplication, modify the chemical and mechanical condition of the soil. These are the soil bacteria which are most abundant in humus-rich earth. Many of them obtain their food material by decomposing complex organic substances into simple end products which are then available to plant as food dissolved in the soil water.

From the above it is obvious that soils must be considered from their chemical, physical and biological aspects, and our gardening practices must be directed towards a favorable balance of these. Many times we consider only the addition of chemical plant foods, yet unless the other conditions are favorable, the addition of fertilizers is largely wasted effort.

This is not to put down chemical fertilizers, for more often than not, they will be necessary; while humus is essential for a good soil texture, the food it gives to the soil is released more slowly over a longer period of time. Fertilizer elements are far more concentrated in chemical fertilizers and are more quickly available to the plant when it is needed.

THE VOICE OF EXPERIENCE . . .

Above all, don't be hesitant about seeking advice from those who have been gardening for a long time—they have much to offer in experience. Best of all is to make use of your county agent—that's his job. Any of your fellow AIS members would be glad to help you—and who will know better than they about that flower and its requirements? Remember, "imitation is the most sincere form of flattery", especially if you take their advice; try it and they come back to find that you're doing what they recommended and finding it successful. Despite much talk these days about the generation gap, I've always found older members more than happy to advise and encourage.



To go with my beard, I'm letting my root hairs grow long . . . it's the "in" thing!

WISE - UP

Phil Williams

When my fling with irises began at the ripe old age of nine, it scared the wits out of me to hear professional troubleshooters point out and curse the horrors of rot, leafspot (a plicata?), bloom-out (popped?) and a dozen other foes of our lovely new-fangled "flags."

Irises *are* hardy and they require a minimum of care. (Thank goodness!) If one bought all the recommended chemicals, he would soon have an arsenal of poisons and an astronomical debt (and murder for the environment). So,

wise-up, friends, and take a few lessons from the lady who started it all—Mother Nature.

1. Plant your irises in *raised beds*. Living in the humid Southeast, where rot supposedly thrives (and perspiration is “sweat”), this is most important. Irises grow quite well in beds not elevated, but why not begin growing them the very best way?

Dig your bed out to an eight inch depth. In this pit place a one inch layer of manure (or old tobacco stalks) and refill with the extracted soil. If your soil is tight clay (ours is like wax), consider yourself lucky—this holds the moisture during the heat of summer. You might mix in a generous supply of gypsum (commonly called “land plaster”) to loosen the soil, along with coal cinders. The gypsum functions without raising the pH value of the soil (while ordinary lime will do this) and the cinders tend to “heat” the soil after rains and dry the standing water. (The gypsum can get expensive, so you might substitute dolomitic limestone— or even sawdust.)

2. When planting your irises, be sure that the top of the rhizome is exposed. This is the natural growth pattern of irises. One observer’s rule of thumb was: “The shallower the rhizome is planted, the greater the increase.” (You will discover this to be very true.)

3. Over-fertilization at the wrong time is sure to wreak havoc, so BEWARE. The safest time to apply fertilizer is from about one month after bloom until early fall. (Talk to your neighbor and he’ll swear I’m completely off the beam.) Experiment and set your own timetable.

It is good to apply a bit of fertilizer when planting, as well as watering-in with a chemical starter solution, available at any farm supply or garden store. Try adding two tablespoonfuls of veterinary-brand powder form of Aureomycin per gallon of starter solution. You will find this very good for preventing rot at any time. (“An ounce of prevention is worth a pound of cure!”)

Generally, it can be said to use any type of fertilizer, but be sure to avoid those high in nitrogen. Nitrogen is the first numeral used in fertilizer analysis figures, as 6-12-12, 0-20-20, etc.) *Esminel* and *Seaborne* are good organic fertilizers for adding the usual as well as the trace elements . . . and these produce unbelievable results.

4. MULCH to a depth of three inches with sand—the coarser the better. This can be left on the year ’round (something you can’t do with other types of mulch). In winter it insulates; in the growing season it heats and quickly evaporates standing moisture from the rhizome (a sure cause of rot), as well as cooling and retaining moisture in the areas of root penetration.

5. Keep a clean iris patch! (The sand mulch makes weed pulling much easier.) This is of primary importance for the health of your plants, in addition to general appearance. Always keep in mind that well-fertilized plants never go dormant and that they should not be neglected, while those allowed to grow in weeds with little attention *seem* to grow beautifully. (The difference is on the show bench . . . and the rank growth.)

6. Plant companion plants for color when the irises are finished blooming. Tuck marigolds in everywhere (but not the wide, spreading bush types), and a borer will stay miles away; nematodes will be absent, too. Organic buffs will want to plant chives to keep the aphids away, mint for the flies and tansy for the ants. (That should keep everything away but *you*!).

Our iris bed has become a sanctuary *at last*! Come spring, those neighboring irisarians will flock to see irises growing like they’ve never seen them before and

you'll walk away with sweepstakes at the shows.

It's a lot of hard work and I must admit I got off to a bad start. (If only someone had told me these things when the "bug" first bit me.) So, I'm just beginning.

And, for goodness sake, start off right!!

POLLEN-DAUBING PIXIES

Ann Dasch

Scientific articles about hybridizing and genetics are fascinating to advanced irisarians, and it is true that we may expect the greatest contributions to irisdom from those who write and study these—at least the most immediate results. But how about the future?

Youngsters who grow hybrid varieties are curious about their origins. Did you ever explain to a child, in the simplest terms, the mechanics of iris hybridizing? Perhaps their first choices of TB parents may not be those a purist would select; perhaps they cannot grasp the genetic concepts that the "pros" hold dear. On the other hand, the sheer adventure of creating new hybrids may be the first step toward the stimulation of a life-long and deeply pursued avocation.

It is amazing just how much a small child can learn, much less an iris-experienced teen. Proof was published in the December 1970 issue of the "Region 4 Newscast." Excerpts from "The Bees Made Some Pods Too" follow.

I am Debbie Beasley and I am 9 years old. My sister Barbara Beasley is seven years. My grandmother grows iris and gave us a junior membership in AIS.

Mrs. Dasch showed the junior members of the FSK Chapter how to hybridize. She drew a picture of an iris that showed us the parts. Then we went outside and decided who the parents were going to be. Then we took pollen from the father and rubbed it on the lip of the mother. Then we closed it up and put tape around it. Then we put a tag on it. It said what the cross was. We took a card and put whether it was sunny or rainy, and what time of day it was, and what the cross was, and the date. Then we waited.

Barbara: We had fun hybridizing in my grandmother's yard, too. Grandmummy said we would have enough hybrids for the whole chapter. The bees made some pods, too.



Debbie and Barbara Beasley
(Photo by Maynard Harp)

Debbie: In August and September, the pods turned brown. We picked the pods and popped them, and dried the seeds.

Descriptions of their planting procedures, germination expectations and future plans followed. "Grandmummy," Mrs. F.H.J. Figge, was realistic in her estimate of their produce, as they carefully harvested and planted hundreds of seeds. I disagree with their term "junior members;" they are obviously full-fledged enthusiastic young irisarians: Youth Members of the AIS. Their article concluded with:

We like hybridizing because you get new plants that no one has ever seen before, and we thank Mrs. Dasch for showing us how to do it.

And I thank Debbie and Barbara for showing us that even very young AIS members can enjoy and learn from elementary hybridizing.

HELP WANTED ON BLOOM DATES

In preparing for the reprinting of our Grower's Guide, we are greatly extending a research project on Bloom Data begun many years ago.

In the hybridizer's search for "season extenders" in many genera, data from all parts of the country are needed. Unfortunately, it seems that very few people—even plant society members and commercial growers—keep bloom date records with any regularity, as our membership and contacts in over a dozen plant and horticultural societies have proven.

Either they're too busy, or believe, mistakenly that there is no fixed pattern for the succession of bloom that it is subject to too many random variations (including microclimates) that it is not valid from one geographical area to another though with the use of Standard Control Varieties, and, our Numbered Week Concept, there is no problem.

Several arboretums and botanical gardens have been most cooperative, but generally they are quite weak in the major specialties, frequently covered by plant societies.

YOU CAN HELP, and only a POSTCARD or so will do it!

This year, record the first five and the last five varieties of *TB* and *Median* irises to bloom with precise dates for the *first flower fully open*. (Send two postcards!)

Record the bloom dates in your immediate area for the Standard Control Varieties listed below.

If you grow more than twenty varieties, and, are willing to keep a record for the entire season, a postcard will bring you an oversized chart with directions to make the project easy, accurate and useful.

Naturally, a compilation of the data from this survey will be made available to you as soon as possible.

If you personally know of several people with good collections who might be willing to help I would greatly appreciate receiving their names. Many thanks for your cooperation on this project.

STANDARD CONTROL VARIETIES:

Early: Rococo, Celestial Snow,
Medium: Sterling Silver, Stepping Out,
Late: Olympic Torch
IB: Lime Ripples
BB: Pebbles
SDB: Brassie

Mrs. Daniel J. McNamara
68 Brooktree Rd.
Hightstown, N.J. 08520

IN MEMORIAM

CRESCENT DERU

Crescent Deru died December 29, 1970. A graduate of the University of Utah, with the degree of MFA from Utah State, she had been assistant professor of art at Weber College since 1964.

Crescent was a professional weaver, pottery designer and flower arranger. A student of nature, she searched out elements to incorporate into her art work: native grasses for weaving, clays for pottery and dried plants for arrangements.

Mrs. Deru wrote extensively for garden and iris publications. She contributed significantly to the current AIS Judges Handbook.

Crescent introduced the BB CHOCOLETO, which was runnerup for the Knowlton Medal. Her primary interest was in median irises, which she used effectively in flower arrangements. She designed and executed her own flower containers, and was able to produce some of the most effective arrangements ever seen in Utah flower shows.

She was a perfectionist in all her endeavors, and her contributions to the iris world will be missed.

W. ARLIE PAYNE

W. E. Ouweneel

Arlie Payne died February 13, one week after his 90th birthday. He had been in good health until his death.

He was born on a farm near Terre Haute, Ind., and there he early learned the effort and rewards in winning the fruits of the earth. After graduating from Central Normal College in Danville, Ind., he returned to Terre Haute to learn pattern making. Three years later he went west to spend two years in a redwood lumber camp, and then returned to Terre Haute as a portrait and outdoor photographer. A year later he began attending classes at the Chicago Art Institute, and worked for a Chicago photographer. There he met Clara Gaertner, who became his wife in 1907. They returned to Terre Haute in 1908, and after a brief adventure in real estate, he returned to pattern making.

He began raising peonies as a hobby. This move led him to enter the landscaping business "as a means of personal expression." He bought sixteen acres of land south of Terre Haute and returned to the soil for a livelihood. In the late 20's he learned about Japanese irises. Earlier, while in Chicago, he had made a warm friendship with Dr. Cho-Yo, who had been in charge of Japanese art at the Columbian Exposition and who started him collecting Japanese ceramics and prints.

In 1932 Arlie Payne made his first crosses with Japanese irises, and during the next thirty-four years he was to raise 100,000 seedlings, number 1349 and register 170. Early in his work he committed himself to developing "a race suitable for outdoor American plants." There had to be a beautiful flower; the plant had to be hardy, vigorous and of good form compatible with the flower. He used thirty-two varieties as source material, but depended principally on six Edo varieties to establish his line.

He kept meticulous records of every cross, and each cross was meticulously protected against accidental pollination. He used Ridgway's Color Standards and Nomenclature in recording flower descriptions. All of his original records,

breeding charts and analyses of results have been given to AIS.

Arlie Payne entered 48 of his varieties in competition with 198 other varieties in the 1963 Internationale Garten Ausstellung, and won the Gold, Silver and Bronze Medals with his BLUE NOCTURNE, FASHION MODEL and ORCHID MAJESTY, respectively. A year later he won the Silver and Bronze Medals at the Vienna Internationale Gartenschaus with THE GREAT MOGUL and CONFETTI SHOWER, respectively. In 1964 he was awarded the Hybridizers Medal by AIS. Upon invitation from the Japan Iris Society, he spent seven weeks in Japan as their guest during the 1967 blooming season, following the bloom from south to north.

His friends remember him as a quiet but warm and friendly person. He was an aesthete and humanist. He loved natural beauty and the arts in all their forms. His life was devoted to adding to the beauty which he so much enjoyed and wanted to share with everyone else.

BLUE GRASS IRIS SOCIETY MEMORIAL TO DR. JOHN W. SCOTT AND REV. GEORGE S. WATSON



From left to right: G. Christine Watson and Miss Claudia Watson, son and daughter of Rev. Watson; and Dr. Caroline Scott and Dr. Thornton Scott, daughter and son of Dr. Scott.

MOLLIE TALLANT

Leah Ralls

Mrs. Mollie Tallant, a well-known and much beloved irisarian, of Edmond, Okla., passed away January 6, 1971, at the age of 86. In 1925 she and some neighbors formed the Edmond Iris Club, and she had served the club in every capacity. Her interest in hybridizing began about the time she joined AIS, some fifteen years ago. She was very critical of her own efforts, and introduced only two: SUNLIT LACE, which won an HM in '63, and JUANITA T, which won an HM in '70. A very dark beauty which won an EC in '70, as yet unnamed, probably will be introduced in '72. Her appreciation of irises will live on in those who came to love her and grow them because of her influence.

REBLOOMING IRIS

in the Coastal and Valley Areas of California

Jack S. Romine

The reblooming of irises seems to me to depend on three factors. The most important by far is the growing of iris cultivars that have established a reputation as rebloomers. In the coastal and valley areas of California there is a rather wide number to choose from. In a special remontant bearded iris section, one California catalog lists fifteen dependable rebloomers and fifteen good risks. My recommendation to beginners would certainly include BEAUCATCHER, FALL PRIMROSE, GIBSON GIRL, NAPPANEE, and JOSEPH'S MANTLE. Newer cultivars making a good showing are LOVELY AGAIN and MOJAVE GOLD. The medians PREAMBLE and FINE PRINT are unusually floriferous, their fall display often exceeding their spring performance.

The second factor is a regional climate that permits a long season. In parts of Regions 14 and 15 we can anticipate from six to nine months of growing weather, and in a few areas like Santa Cruz there is the possibility of year-round bloom. Joe Ghio, for example, seems to have bloom stalks at any time of the year. Thus when we receive five or six good rains as we did this fall, and when the killing frosts are delayed until late December, then there is considerable rebloom even from irises that have no remontant tendency or inheritance. In Contra Costa County there were reports of small seedling patches with from twenty to thirty seedlings in bloom, chiefly those that had skipped the regular season. Apparently the long growing season had allowed certain seedlings to reach the right stage of maturity, and they bloomed. I was agreeably surprised to get excellent stalks on two ROCOCO seedlings that germinated in February and bloomed in November!

Even though I place the culture of remontant irises as the last factor, I do feel that it is important. Frequent mild fertilizing and conscientious watering are "musts" of summer care. But here we sometimes run into a dilemma, for too much nitrogen and too much moisture may result in rot damage during very hot weather. My own solution, which I suspect is not very commonly followed, has been a perpetual mulch of aged wood chips to a depth of about four inches. Unlike others who do recommend mulching, I carry the chips right up to the rhizomes and even over them in the center of the plant. I have never had rot in the beds mulched in this way, but in a small plot of seedlings not mulched, I experienced a rather high mortality rate this past summer. My explanation is that wet, unmulched soil quickly rises to a high surface temperature that "cooks" the rhizomes, while the mulched soil remains relatively cool.

My soil is naturally deep and rich to begin with, but I have tried to increase its fertility with yearly applications of organic matter and mineral-rich additives such as ground rock phosphate, greensand, and wood ashes. For extra nitrogen in the mulch, I use hoof and horn meal and blood meal.

With this kind of culture I have had very good rebloom beginning in July and August. For two years in a row I have had several scapes on SOUND OF MUSIC, PALISADES, PACIFIC WATERS, and SINGING PINES, and in fact got two huge seed pods to set on PACIFIC WATERS in 95° heat. (These cultivars,

however, should be considered once-in-a-while rebloomers, not genuine remon-tants.) Other cultivars that have bloomed outside the normal season have been SAN LEANDRO, LADY MOHR, and PACIFIC PANORAMA. A most surprising continuous bloomer this past year has been EPIC, which to my knowledge has never been known to rebloom. It bloomed lightly in the spring and then sent up one stalk a month until the first killing frost in late December. The August stalk was especially magnificent, being nearly five feet tall and having five side branches, with branches on the branches. Several professional growers have confirmed my observation that the rebloom stalks have superior branching.

In the reblooming robins some people from the valley areas recommend light or partial shade as a necessary condition for obtaining rebloom; however, that is a condition I cannot easily provide for and thus I cannot comment on its effectiveness. My garden is subject to many days of summer temperature in the hundreds, but mulching seems to give the irises the protection they need. The most significant thing I have learned to do, aside from watering regularly and deeply, is to dig and divide the rebloomers every two years, moving about one third of the original clump to a new location. I have moved small clumps of easy rebloomers like BEAUCATCHER in June and had them send up stalks in late summer of the same year, but better rebloom is ensured by transplanting in late October or early November of one year so that they will be well established by the fall of the following year.

Irises in the Garden

Alice L. Higgins (Commerce City, Colo.)

Anyone who has really looked at a bearded iris flower (I mean *really* looked) will agree they should be in every garden.

If you are one who has only noticed them as so much color, do take a *real* look. You will discover that looking down into the open face of a bearded iris is much like looking through a glass bottomed boat in water that is full of marine life — you see things you had no idea were there. Where other flowers are a ring of petals around a center, an iris is a whole little world of fantasy, as mysterious and fascinating as the long dead kings of ancient Egypt — for one of whom a lovely iris was named — RAMESES, winner of the Dykes Medal, 1933.

Perhaps it is because irises are grown in rows in commercial gardens that so many backyard gardeners set them out that way. Commercial growers use the row method for ease in cultivating, but in the home garden good effect is more important and iris is about the most versatile plant there is.

Certainly they are attractive in a row where a strip planting is needed, but they are equally good used as specimen, accent, background, foreground or edging — and in a group planting either as the dominant plant or (and this is a very important and much overlooked use of irises) as a fine contrast in leaf shape among other folliages. Even when out of flower they are useful that way.

The lower growing and dwarf irises make nice pot plants, too. Pot them up when you thin, leave out until after a good freeze, and you'll be surprised how quickly they'll shoot up and into flower when set in a warm sunny window and soaked up. By taking them in at intervals you can have flowering pot plants all winter.

A completely satisfactory garden is an ever-changing panorama all year. Even in the dead of winter a few minutes spent in a garden where there is nothing

more to look at than remains of last summer's stubble humping the snow, and here and there a few spears of irises defying the winter winds, can give the spirit a lift. You know that where the old spears are little new ones are waiting to shoot up with the first warm days, as they have been doing since long before Caesars' time.

With a little study of blooming dates in your area and proper selection of varieties, you can have irises in flower practically the year around — and *always* their fine contrast of foliage. Don't overlook irises as an all around plant when you plan your garden.

ARCHIE OWEN MEETS "ARCHIE OWEN"



Archie Owen, president of the Spuria Iris Society, comes face to face with a picture of the spuria iris "Archie Owen". The picture, done by the talented painter, Mrs. Elizabeth Martin, was a surprise birthday gift by Archie's husband, Ed, and was presented at the January meeting of the San Diego Imperial Counties Iris Society.

Control of Iris Rust With Plantvax

Robert D. Raabe

Iris rust results from infection by the fungus *Puccinia iridis*. Although infected plants are not killed, the fungus produces spores in large numbers and as these are released, they give the leaves a rusty, unsightly appearance. In addition, infected leaves frequently die, thus reducing the vigor of such plants.

Rust is more severe in some areas of the country than in others, and in any area, the severity may vary from one season to another, depending on weather conditions. Also, iris varieties vary in their susceptibility, from some that are

extremely susceptible to some that are completely resistant.

In coastal northern California, environmental conditions are favorable for rust, and in some years susceptible varieties may be very severely infected. Because of this and because of the availability of a new experimental fungicide (Plantvax) which is effective against the rust fungi, experiments were started to determine if iris rust could be controlled.

In the 1969 trials, plants were sprayed after the fungus appeared. Four applications were made at two-week intervals, at the rate of 1000 parts per million (ppm) of the active material (1/6 ounce of the 75% material per gallon plus a spreader-sticker). Spraying individual plants without spraying surrounding plants gave some control, but spraying entire rows of plants gave far better control.

In the 1970 trial, one complete row was sprayed at 750 ppm (1/8 ounce per gallon plus spreader-sticker) and another row was sprayed at 1000 ppm plus spreader-sticker. The plants were sprayed twice with a two-week interval between applications. Two weeks later, counts were made of the numbers of active rust infections in the treated rows and also in a non-treated row. The results were as follows:

Treatment

Untreated check — 18.31 infections per plant

Plantvax 750 ppm — 2.06 infections per plant

Plantvax 1000 ppm — 0.61 infections per plant

As can be seen, excellent control resulted at both concentrations of Plantvax although control was better at 1000 ppm. Additional trials are planned to determine concentration, spray interval and number of applications leading to the most effective control.

Dr. Raabe is with the Department of Plant Pathology, University of California, Berkeley, California 94720.

Supported in part by the American Iris Society and by Region 14 of the American Iris Society.

Appreciation is expressed to Mr. Joseph H. Hurlimann for technical assistance.

SUGGESTIONS AND IDEAS FOR PLANTING AND GROWING SIBERIAN IRIS IN THE INLAND EMPIRE (California)

Mark E. Rogers

Siberian iris *are not* difficult subjects in the Inland Empire. We have seen them beautifully grown in Riverside and San Bernardino, and have personally gotten excellent growth and bloom in Yucaipa. The only limitation on blooming Siberians seems to be too mild winters. Even in the mildest areas there are some varieties that will flower.

Eastern gardeners, who have neutral or acid soil, have the easiest time with Siberians. In the West considerable more care (notice the word care — not work) must be utilized to get the best results. It has been our experience that late September, October and even early November are the best times for planting. Our personal preference is early October. However, you must fit this to your own conditions.

Soils in our area generally need the addition of large quantities of an acidic humus, such as oak leaf mold or high grade peat moss. Excessively alkaline soils may also need the addition of soil sulfur. Melrose Gardens recommends 1 pound per 100 square feet in their catalogue. We have never needed to utilize sulfur. *Ideally, all soils should be prepared well in advance (1 to 3 months) so that soil characteristics will be re-established by planting time* (ie: settling of soil, dissolving of additives and incorporation of humus into soil structure). In particularly hot areas, light or filtered shade from tall trees may be desirable. In our area we have found that they grow and flower better in nearly full sun — but appreciate some shading from the sun's hottest rays. Too much shade prevents adequate growth or flowering. Small but regular feedings with an acid plant food (such as camellia food) helps maintain soil acidity, as well as supplying food.

This past summer we discovered that Siberians need a heavy mulching. We placed about 2 inches of leaf mold around each clump and outward for 15 inches or so. The foliage immediately doubled in size. Manures (horse, cow, rabbit), leaf mold and peat have been observed as mulches. We prefer oak leaf mold or a well-rotted horse manure. This mulch combined with regular feeding and especially a *regular and adequate* watering schedule is very important. Newly set plants need to be particularly well watered. Don't let the roots dry out while planting or transplanting. Keep them in a bucket of water. Of importance is the fact that some Siberians transplant easier than others. By keeping them moist you reduce chance of loss. Siberians require much more water than TB varieties, especially during the growing season and during the summer. If watered deep enough, harmful salts are leached below the root zone.

Selection of the planting site should be very carefully thought out. Once planted it is best not to disturb them for several years, as they improve in quality each year. First-year plants usually have shorter bloom stalks than on 2- or 3-year clumps. A well-cared for, well-grown clump of Siberian iris is a sight of great beauty!

There has been great progress in Siberians. Reddish shades, all shades of blue, violet and white are the usual colors. Yellow, pinkish and apricot shades and plicata patterns are being developed. Most Siberians are diploid (2 sets of chromosomes), but now tetraploid (4 sets of chromosomes) forms have been created by chemical treatment. A few of these just came on the market.

A few of the Siberians that have performed well for us or that we have seen doing well include: GRAND JUNCTION, WHITE SWIRL, CAESAR'S BROTHER, RUBY WINE, TEALWOOD and LIGHTS OF PARIS.

Siberian irises are excellent subjects to incorporate into perennial borders.

Color Classification

The Color Classification books, which we had promised would be in the mails on March 1, arrived February 25, and we turned down the shipment because the color chart had been grayed. Printers tried to correct the color separations, but we could not accept the results. The result was having to make a new set of color separations, with the first books arriving March 13. They now are available, however, at either the Omaha or St. Louis offices. 60 cents; in lots of 10 or more, 50 cents each.

GATESII for SALE

The SPECIES COMMITTEE of the ARIL SOCIETY, International offers garden grown selected specimens of I. gatesii to AIS members at the low price of \$6.00 each or 3 for \$15.00 postpaid. Orders will be filled in order of receipt.

Send checks or money orders payable to Species Committee Chairman

Herbert H. McKusick

P. O. Box 2567

Globe, Arizona 85501

SCHORTMAN'S IRIS GARDEN

849 West Putnam Avenue

Porterville, California 93257

Phone 784-4969

BLUE FASCINATION '71. E-M-L. \$25.00

Music Maker X Fragrant Sapphire x Blue Formal. Beard yellow on a spectrum blue self. Beautifully fluted.

FANTASTIC VOYAGE '71. M-L. \$25.00

Main Attraction X Arctic Flame. Nicely ruffled amoena. Violet-blue falls; rich cream standards. Extra heavy substance.

MAJESTIC PRINCE '71. M-L. \$25.00

Amoena seedling X Rippling Waters. Amoena type. Ruffled. Falls violet edged brown. Standards yellow. Beard yellow to white.

CALICON '69. E-M. \$25.00

Polka Lace X sib to Blue Fascination. A near purple self with brown beard. Very fluted and blooms again in fall.

FLUTED ICE BLUE '69. E-M-L. \$15.00

Celestial Snow X blue bearded white seedling. Nicely fluted.

NEW SNOW SYMPHONY '70. E-M-L. \$25.00

Blue Formal X Fluted Ice Blue seedling. Pure white.

LOVE IN BLUE '70. E-M-L. \$25.00

Sib to New Snow Symphony. Blue self. Both very fluted.

DOVE IN FLIGHT '67. E-M-L. \$20.00

Heavily fluted blend of buff and blue. Golden Dawn X seedling involving Tall Chief and Curls of Gold.

SEEING RED '67. M-L. \$20.00

Nicely ruffled clean red. A real improvement in red irises.

All of the above irises are around 36" tall, and the result of years of breeding. No catalog, so order from this ad. Stock is limited. First come first served. Include \$1.00 for mailing.

Below our bordered bearded. All bloomstalks, bloom and foliage in balance.

LITTLE BUFFIE. 16". Little Dude X Frenchi. \$5.00

LITTLE FAIRY. 18". Patrician X Celestial Snow. Ruffled white; yellow haft. \$10.00

LITTLE SISSIE. 18". Variegata. Bold Contrast X variegata seedling. \$7.50

COPPERETTE. 16". Plicata. Copper Halo seedling. \$5.00

EL DORADO IRIS

500 E. Locust

El Dorado, Kansas 67042

1971 Introductions by Helen Graham Reynolds

KANSAS KID (Golden Zebra sdg. X Changing Lights). BB. 20". E to M. A brilliant clump of orange-toned red. Flowers in good proportion to height. Standards orange-red; F deeper color. A "shouting" color. \$15.00

HAZY HEAVEN (67-21 X Desert Magic). TB. 38". M-L. A large, full, round flower of light "hazy" blue. 67-61 is from 53-166 (white with tangerine beard) X 55-292, which has Pink Giant and Flora Zenor in it. The wide standards are domed and touching. Falls are flaring and ruffled. Color is really a wash, but so solid it shows only at the haft. A large flower of good quality. \$25.00

DYING EMBER (5161 X 101-61). TB. 36". M-L. This is a very dark red of the most excellent quality. Lots of flowers, extremely free of haft markings, excellent branching and substance. 51-61 is from Black Delight and 101-61 is a pink. The flowers seem to me in perfect proportion, with wide, domed standards and flaring, ruffled falls. Name indicative of color. This, to me, is "worthy." \$25.00

LOUISE WATTS (1971)

B-228 (Sorcerer's Apprentice X Sea of Stars) \$35.00

The picture of this flower on the inside front cover of this Bulletin is a freshly opened flower. After a day in the sunshine, the flower grows much larger—flares nicely, and the brown border becomes even more pronounced. The substance is remarkably heavy and the flowers are long-lasting, even under adverse weather conditions. Stalks are nicely branched with eight or nine buds. 28" tall. HC in 1969 and 1970.

SCARLET BAND (1971)

B-238 (Sorcerer's Apprentice X Sea of Stars) \$35.00

This is a sib to LOUISE WATTS, and generally I regard a second introduction from the same cross with some suspicion. However, this flower has many differences—and I feel it is worthy of introduction. It is 32" tall. The flowers are not quite as large as its sib, but have the same heavy substance. It is a reddish blend, and has a most beautiful deep red border on the falls—about 3/8" wide. All in all it is quite striking, and I know of no other iris like it. Has eight or nine buds per stem; very nicely branched with a graceful "S" curved stem.

PREVIOUS INTRODUCTIONS

(For more complete descriptions, please see July 1970 Bulletin)

SEA OF STARS \$25.00

SORCERER'S APPRENTICE 25.00

YVONNE BURT 20.00

SEA OF TRANQUILITY SOLD OUT

BETTY SHERILL 15.00

If you send an order, please let us know what you are growing of our introductions as we send extras, and don't want to duplicate something you already have. The 1971 introductions and SEA OF STARS are in short supply, and we cannot send these as extras.

ANN AND CLARENCE BLOCHER

336 E. Forest Ave.

Wheaton, Illinois 60187

(312) 668-1293

COUNTRY VILLAGE GARDEN

Offers for 1971

CELESTIAL FIRE. (White Caprice x Three Graces). EML. 34" Repetition of the cross which gave us Merry Aire (1970) produced this distinctive flower with arched, ruffled standards and very broad, ruffled, flaring falls set off by a red beard with white tip; clean hafts. Well-branched, well-proportioned stalks carry 8-10 buds. Vigorous plant with blue-green foliage. Fertile both ways. We believe Celestial Fire represents a significant accomplishment in our continuing search for the red-bearded white iris, since so many of the qualities of a good iris are combined in this lovely flower. Sdlg. 95-3. HC '69 \$25.00

Previous Introductions

Merry Aire (1970). Taller (40") white, heavy red beard \$20.00
Regal Image (1969). Violet-blue self, ruffled, flaring 15.00

Howard and Ruth Goodrick

16620 W. Pepper Lane

Brookfield, Wis. 53005

AGRI-MYCIN 17

SOFT ROT — NO PROBLEM

One treatment dries up Soft Rot over night.

Agri-mycin 17, agricultural streptomycin is an antibiotic formulation intended for agricultural use in control of plant diseases. One-half teaspoonful in one gallon of water makes a powerful solution that destroys bacterial soft rot.

Just spray lightly to moisten the iris rhizomes. Not necessary to drench and waste solution. We used less than one gallon of solution last year. Never once did we have to treat a second time.

Be prepared. Order today. No time to spare when Soft Rot develops.

AGRI-MYCIN 17, 8 oz. \$4.00 Post Paid.

TERRACLOR 75%

For CROWN ROT, (Mustard Seed Fungus) on iris, delphinium, hosta and nearly a hundred other plants.

Just mix one tablespoonful of Terraclor 75% in one gallon of water and saturate the iris plants and soil with the solution. If only a few plants to treat, dust the plants, rhizomes and soil with Terraclor 75% and it works like magic.

TERRACLOR 75% — 3 lbs. \$5.60 Post Paid

Prices subject to change without notice.

GABLE IRIS GARDENS

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STARBRIGHT IRIS CRYSTAL **EXCLUSIVELY DESIGNED BY AN IRISARIAN** **FOR IRISARIANS!**

No. 707. 5 piece Beverage Set. 70 oz. ice-lipped pitcher and four 12 oz. tumblers . . . \$14.95.

Blends equally well with modern or traditional table setting. Its lovely Iris Pattern radiates sheer elegance. Ideal for Birthday, Anniversary, Trophies, Awards and Every Occasion. Please include 10% of total order for postage and handling. (Allow three weeks for delivery) 4 extra tumblers \$7.95



STARBRIGHT IRIS CRYSTAL

Charles C. Jack
 622 Locust Avenue
 Weston, West Virginia 26452
(See January AIS Bulletin, pages 78 and 82, for additional items available.)

KEITH KEPPEL

P. O. Box 8173

STOCKTON, CALIFORNIA 95204

1971 IRIS INTRODUCTIONS

Tall Bearded

FLATTERY (Gatty). M. 36". Cross Country X Eleanor's Pride

For those of you who attended the New York convention, no description of this iris is necessary—just the explanation that it was the seedling labeled Gatty 67-10 at the Knocke garden. For the rest of you, we should say that it is a light chicory blue self, paling toward the center of the falls. The beard is cream, large, and prominent. Standards dome and touch, falls flare, and all parts are wide and nicely ruffled. The large blooms are well-placed on much-branched stalks. Stock limited. HC (21 votes) in 1970

\$25.00

Border Bearded

EMBROIDERY (Keppel). M. 26". (Happy Meeting x Rococo) X (Full Circle x Rococo).

The stitching on this chunky, ruffled flower is done in a clear shade of blue violet (roslyn blue, the color charts call it), and a precise stitching it is. Blue-white beards are tipped yellow, styles are violet. Thin, well-branched stems. Has shown a definite tendency to bloom off-season in its home climate. HC in 1970. \$15.00

Intermediate

BONUS (Dennis). EM. 22". Twice Blessed X unknown.

Faint brown stitches and stipples show through from the inside of the soft yellow standards. The yellow falls pale to cream in the center and carry cinnamon haft stitching and golden tan stippling. Styles clear yellow, beard bright yellow; petal parts lightly waved. Stems thin, with two branches and terminal. The bonus? It reblooms! \$7.50

VOODOO DOLL (Gatty). ML. 16". Voodoo X Golden Fair.

Mustard Gold with a metallic sheen, a complete self except for a tiny blue-white dart at the tip of the yellow beard. Standards arch and touch, falls flare, and the blooms go on into the early tall bearded season. . \$7.50

July - August Delivery

1971 INTRODUCTIONS

KANSAS STORM. TB. 34". ML. A strong blooming deep purple self. Nice sheen. \$25.00

KANSAS HARVEST. TB. 28". M. Beautiful red-brown with moderate purple eye. \$25.00

CHITTY BANG BANG. TB. 28". L. Brilliant greenish yellow standards; strong violet falls. Ruffled. \$25.00

COLLEGE GRADUATE. TB. 30". ML. Ruffled flower of very pale violet standards; moderate violet falls. Beard tipped orange. \$25.00

MICK'S IRIS GARDEN

1911 Iowa

Topeka, Kansas 66607

BRYCE PHENIS' 1971 Introductions



AVENTI '71



WORDS OF LOVE '71

AVENTI '71. 1564-0. Celestial Glory X Claudia Rene. Golden apricot blend with pink midribs, gold shoulders, and coral-red beard. Three branches and eleven buds. \$25.00

WORDS OF LOVE '71. 4264. Flaming Heart X Dawn Crest. Standards are pastel apricot flushed pink; falls cream-white, pastel apricot border, deeper shoulders and soft red beard. The thin laced edge is pastel lemon. Three branches and nine buds. HC '70. \$25.00

VERNAL FALLS (Bernice Roe '71). Majestic Swan X involved parentage. At last the good green amoena. Closed white standards; falls uranium green with pale yellow beard. Large, lightly ruffled flowers of heavy substance. Three branches and up to ten buds per stalk. HC '70. Limit one. \$25.00 NET

1673 Calado Court

Campbell, Calif. 95008

OLSON'S 1971 INTRODUCTIONS

ARCTIC DAWN (Sdlg. 66-1A) TB. ((Cliffs of Dover x Gay Princess) X (Pink Cameo x Pink Formal) x Mary Randall)) X Marshmallow. Light canary yellow (R.H.S. 2/3) standards. Very WIDE white semi-flaring falls, smooth coloring of standards at haft area. Deep yellow beard. Breathtaking huge leather-like substandarded ruffled blooms are perfectly spaced on 36" heavy stalks that carry the long-lasting blooms upright during adverse weather. Robust grower with wide deep green foliage. Excellent breeding potential. Much admired at 1970 AIS Convention. Mid. HC '68. Very limited stock. Net \$25.00.

EXOTIC GEM (Sdlg. 67-40) TB. ((Crinkled Beauty x Amethyst Flame) X (CharMaize x Bellerive) X (Cathedral Bells x Ballerina))). Beautifully proportioned Campanula Violet self (R.H.S. 37/2) with matching beard. Firmly held standards ruffled and overlapping. Falls wide, ruffled and semi-flared. Good branching on sturdy 34" stalk. The lovely clean color and very smooth texture reminds one of an exotic gem. Mid. HC '70. \$25.00.

NOBLE GUEST (Sdlg. 67-14A) TB. ((Pink Cameo x Pink Formal) x Mary Randall)) X Sunsite. Deep lemon yellow self (R.H.S. 4/1) with matching beard. Standards ruffled and overlapping. Wide, clean semi-flaring falls are highlighted by clean white area. Large, moderately ruffled blooms are ideally spaced on sturdy 36" stalks. Fertile both ways. Mid. HC '68. \$25.00.

One each of above \$60.00. (A recent introduction included as an extra).

RECENT INTRODUCTIONS (See previous April Bulletins for full descriptions)

APACHE TRAIL '70. Butterscotch self, \$22.50	ARCTIC TORCH '69. White, red beard, \$20.00
ARCTIC FANTASY '70. White, red beard, \$22.50	DAWN BLUSH '69. Deep pink self, \$20.00
ETERNAL JOY '70. Persian rose amoena. \$22.50	RADIANT BEAM '69. Cream, white, \$20.00

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SCHMELZER'S GARDEN

731 Edgewood

Walla Walla, Wa. 99362

CROWN ROYAL (Lion of Judah line for five generations.) 36". M-L. Full, ruffled flowers of Royal purple (834), with luminous overlay of black; dark bronze beard. A glorified Lion of Judah, twice its size. \$30.00

IDYLLIC (Apricot Royal X Bright Magic) X Bright Butterfly. 30". M-L. Nasturtium orange self; self beard. Small foliage, for front of the border. Darling, fully ruffled, rounded flower that you will love. \$25.00

SKY MAGIC (Favorite Topic X Auda) X Skywatch. 37". EML. Palest gentian blue self (42/3) white beard. Perfectly branched tall stalks hold the very large, gorgeous blossoms for best display. \$25.00

ROSY POSY (Garnet Treasure X unknown) X Cherry Garden. 12". Medium rose self; white beard. Many wide flowers. Choice. \$7.50

MY COLLEEN (Unknown parentage). 12". Veronese (palest green self); white beard. Its many ruffles give it a fluffy appearing clump. \$5.00

For descriptions of the following see the April AIS Bulletins.

1970 — page 75
 Bunch O'Violets \$15.00
 Fiesta Sun 20.00
 Let's Celebrate 20.00
 Weirdo 7.50

1969 — page 56
 Black Bart \$15.00
 Lake Kalamalka 10.00
 Lightning Flash 22.50—H.M.
 Out West 15.00—H.C.

NO PRICE LISTS

ECHO HILL GARDEN 1971 INTRODUCTIONS

CAPTIVE CLOUD. Sdlg. 3965F. A large, crisp, beautifully formed, glistening white iris with matching beard. The frilly buds open into airy, ruffled, starched blooms. The domed standards are firmly held, and the clean, extra broad falls are arched and flaring. It has good styling and proportion on a sturdy stalk. Magnificent as a single flower or a clump. A later blooming flower to prolong the season. Late midseason. 34". HC '67.Net \$25.00

IMPERIAL BALLET. Sdlg. 1766R. A self of purple-violet (R. H. S. Colour Chart). It's a regal, graceful, delightfully formed flower with heavy substance and much ruffling. Has very wide flaring falls and fluted standards. The large blooms are ideally spaced on tall well-branched stalks. Floriferous and a good performer. The Frost and Flame and Lipstick in its breeding make it an interesting parent, used either way. Midseason. 37". HC '69.Net \$25.00

PREVIOUS INTRODUCTIONS

ABSTRACTION. Greenish buff; lavender flush on haft. \$22.50
BUTTERED POPCORN. Flashy light yellow and white. \$22.50
SKATER'S WALTZ. Ruffled white. \$22.50

DOROTHY S. PALMER

851 Weidmann Road

Manchester, Mo. 63011

INTRODUCING THE STUNNING ARILBRED OF THE MILWAUKEE CONVENTION

SOJURN (Harry Tate '71)

Sdlg. 64-4 K (Tate 59-10-K: Beisen Aga x Capitola) X (Tom Craig 42-55: onco x variegata x plic).

Very aril appearing, medium sized, globular flowers. Tightly domed standards with strong midribs; nicely recurved falls. Standards are warm buffy lavender, veined violet; falls are chamois, dotted and veined cinnamon violet. There is a prominent, round, stippled burgundy signal. Stylearms are amber. Two buds in terminal; one in side branch. Has had up to three well-spaced branches. Height 28-30". Extremely vigorous grower. Marvelous performance at the Milwaukee convention. Destined to become famous as a breeder. HC in '69 with 16 votes. EC in '70 as best arilbred seedling of the Riverside, Calif., show. \$20.00 each, net.

Free list on request. Listing our arilbred, TB and Siberian introductions. Choice listing of newer irises from other hybridizers. All orders before August 1, please.

MARK AND JEANETTE ROGERS

Sierra Vista Iris Garden

12176 8th St.

Yucaipa, Calif. 92399

NEVA SEXTON'S IRIS GARDEN

1709 Third Street

Wasco, California 93280

GEORGIA GIRL (Sexton '71) (New Moon X Beauty Secret) E. 36".

A sparkling, deep rich peach pink with a coral flush. Self beard. Large, beautiful form flowers with extra broad heavy substandard petals, closed standards and flaring falls. Well-branched stalks with many blooms. Net \$25.00

GOODNIGHT IRENE (Sexton '71) (Pacific Panorama X Indiglow) M. 36".

A new deep navy blue with very large, perfectly formed flowers. Its petals are extra broad and the standards which are delicately ruffled dome perfectly, while the broad, ruffled falls flare to perfection. A rich turquoise blue beard adds depth. Four-way branching with nine blooms per stalk. \$25.00

PINK PEACE (Sexton '71) (New Frontier x Rippling Waters) M. 36".

A large, very smoothly finished flower of azalea pink with a slight orchid flush. Self beard. The heavily substandard petals are extra broad and beautifully ruffled. Closed standards and flaring falls. Four-way branching with nine or more blooms per stalk. Sib to Springtime Fantasy. \$25.00

PARTY PRINCESS (Sexton '70). A rich true pink self \$15.00

KIMBERLINA (Sexton '70). Salmon and pinkish orange self \$ 7.50

SPRINGTIME FANTASY (Sexton '69). Deep rose self \$ 5.00

TRAVEL ON (Sexton '69). A bright gold self. One of the most heavily laced irises around. \$ 5.00

NEW MOON (Sexton '68). Hugh broad, super-formed rich lemon yellow self with heavy substance. \$ 5.00

Rhizomes will be true to name and disease free. Gift Iris with order. Price list of other irises on request. California residents add 5% sales tax. Also postage.

IRIS FROM THE SHEAFF GARDENS

Due to heavy demand and short supply we must hold Carrara Marble at last year's price.

CARRARA MARBLE. '70. M. 38". Sdlg. 63-50-A. (Galilee X (Hall pink x Celestial Snow)). One of the most beautifully formed white irises we have ever seen, Carrara Marble is named for the stone from which Michelangelo carved his statues. The deep ruffles extend one-half inch into the petals and are so closely spaced as to give a corrugated effect. The color is a definite green-white with lemon yellow beard; buds are very green. Both standards and falls are round, falls flaring, standards domed and touching. Healthy vigorous foliage. Stalk is S-curved carrying 6-9 buds (bud count varies with growing conditions). \$25

PEARL KEMP. '69. M. 32". Sdlg. 62-21-A (involving Fay pinks, Dream Dust, and Celestial Snow). Iridescent cream with gold beard and matching touch of gold on the hafts. Beautiful form with petals delicately ruffled and laced. Healthy foliage. 9 buds. \$17.50

UP AND AWAY. '69. M. 34". Sdlg. 62-14-E. (Sunrise Serenade X Esther Fay). This white with a red beard inherits the form, vigor, and foliage of Esther Fay. Will succeed where other red-bearded whites will not. The extremely round and delicately ruffled flower is stark white with a red-orange beard. One of the most floriferous iris we know: an established clump will have many stalks bearing four flowers open at once. 9-12 buds. \$17.50

SHEAFF IRIS GARDENS

627 East Main Street

Ottawa, Illinois 61350

Co-Introducing With Tell's Iris Gardens

OPERA NEWS (Spence '71). Midseason. 36". TB. Rippling Waters X (Rippling Waters x Top of the World). Lovely medium violet self with tangerine beard. Domed standards and flaring falls. A strong stalk with twelve well-placed buds. Near perfect branching. Should prove interesting as a parent. Sdlg. No. 64-41-7A. HC '70. RTGA '70. Net \$25.00

STRANGE INTERLUDE (Spence '71). Midseason. 30". TB. Rippling Waters X 62-9-4A: Prettyfield x Rippling Waters. This iris has the most unusual coloring of any iris I have ever hybridized. Tan with violet undertones; a definite "smoky" with a brilliant orange beard. Nice flower form resembling Rippling Waters. Though the plant is short, the flowers are nicely placed and open in perfect sequence. Six buds. EC '69. Best sdlg. of show '69. Net \$25.00

PREVIOUS INTRODUCTIONS

THEATRE ARTS '70. TB. Neglecta with tangerine beard \$22.50

MAIN POINT '70. TB. Quality white with tangerine beard \$10.00

COUNTRY GIRL '69. TB. Laced orchid-lavender with tangerine beard \$20.00

PACIFIC ISLE '69. TB. Dark violet-blue with self beard \$10.00

SPANISH EYES '69. TB. Deep violet \$10.00

BRIEF ENCOUNTER '69. BB. Well-proportioned white with orange beard \$ 5.00

GLASS MENAGERIE '68. TB. White with peach influence in standards \$10.00

DRESS SUIT '68. TB. Deep violet-blue neglecta \$ 5.00

NO CATALOG — ORDER FROM THIS AD

HERBERT J. SPENCE

3461 Adams Avenue

Ogden, Utah 84403

TUCKERS' 1971 INTRODUCTIONS

BLUE WARBLER (Tucker '71). 25". BORDER. EML. Involved parentage given on request. A tremendous step forward for a reverse bitone. Standards twice as dark as any seen. Falls a light blue. 8-11 buds. A fine garden iris. Fertile both ways. HC '70. 30.00

MY SIN (Tucker '71). 30". EML. (Southern Charm X Kingdom). Color an unusual red-tan. Falls have a lighter area set off by an orange beard. Bloom is not large. 7-9 blooms per stalk. 25.00

SINFUL PAPA (Tucker '71). 34". ML. (Southern Charm x Christmas Time). Standards white inside, peach pink outside. Falls white with 3/8" peach pink edging. All heavily laced and waved. 25.00

SMOOTH TOUCH (Tucker '71). 32". EML. (Court Ballet x Ethereal Pink) X Heartbreaker. A deep pink self with somewhat darker center. A rugged hearty grower. Better than average in every aspect. 25.00

ALL FOUR \$70.00

SOUTHERN MEADOWS GARDEN

MAY and JAMES TUCKER

CENTRALIA, ILL. 62801

BOX 230

Voris Iris Gardens

R.D. 2

Watertown, Pa. 17777

THE HOUSE OF TESTED HARDINESS INTRODUCES FOR 1971

- SPECTRAL STUDY.** A multi-colored blend of good form (from Lucky Lady). \$25.00
- SANTA'S SHOP.** Red beard on excellently formed white. Frost and Flame x Whirlaway) X Matzatlan. \$20.00
- WATTAFLARE.** Large tailored horizontal orchid-rose (from May Magic).
\$20.00

FORMER INTRODUCTIONS

- MY BLUE HEAVEN.** Well-branched, large flaring blue, near amoena.
\$15.00
- GILDED HEIRESS.** Pink-flushed gold standards and hafts. Orange beard on gilt edged white falls. \$15.00
- INKWELL.** Form lovers, here it is, large and unique. \$10.00
- BLACK MONK.** Blue-black of good form. \$ 7.50

Charles Wm. Voris, Proprietor

BLODGETT INTRODUCTIONS

- GLACIER CAP** (R. Blodgett '70). Sdlg. 67-66. (Skipper Blue X Whole Cloth). ML, 36". S pure white. Falls bright blue with a white blaze at tip of pale yellow beard tipped white. \$20.00
- PINK FAVORITE** (A. Blodgett '70). TB, 36". Sdlg. 67-32. (Lipstick sib X Career Girl). Laced light pink self; deeper pink beard. HC '69. \$20.00
- MUGGSY** (R. Blodgett '70). BB. 22". M. Sdlg. 67-12T. (Sdlg 62-47 X Top Flight). S amber yellow; F same overlaid brown; yellow-bronze beard. HC '69. \$7.50.
- TOPAZ GEM** (R. Blodgett '69). ML, 36". Sdlg. 67-37 (Sib of Apollo's Gift X Indian Fringe). Sparkling golden buff with a blending of rose on the falls, matching beard. HC 1968. \$20.00
- GALA ROSE** (A. Blodgett '68). M, 36". (Cashmere X Career Girl). Ruffled clear rose pink self, red beard. HC '64. HM '69. President's Cup '69. \$15.00
- INDIAN FRINGE** (R. Blodgett '68). ML, 34". (Rainbow Gold X Schroeder 60-64-21). Heavily fringed golden tan self, Beard the same. Large flowers on well-branched stalks. HC '67, HM '69. \$15.00
- APOLLO'S GIFT** (R. Blodgett '67). ML, 34". (Rainbow Gold X Illini Gold). Light yellow self, yellow beard. Well formed, ruffled and fringed, heavy substance and well-spaced branches. HC '66. HM '69. \$10.00
- REDWOOD EMBERS** (E. Blodgett '67). ML, 38". (Storm Warning X Bazaar). Flared garnet-red self with lavender beard. HC '66. \$7.50
- APRICOT DRIFT** (R. Blodgett '68). BB. 24", EM. Nicely proportioned apricot self, orange beard. \$5.00

Order from this ad — no list

BLODGETT IRIS GARDENS

1008 E. Broadway

Waukesha, Wis. 53156

SCHLIEFERT IRIS GARDENS

RFD 1

Murdock, Nebr. 68407

(Since 1935)

ANGEL CHOIR (Schliefert '70). A very heavy, waxy, beautifully shaped white. Standards closed and interlocked with heavy fluting. The falls are wide and due to the heavy fluting are held in a flaring position. The extra heavy substance gives flowers a long-lasting quality. Excellent branching and plant habit. Hardy. HC '69. SEE INSIDE FRONT COVER of Bulletin 198, July 1970, for picture in color. Net \$22.50

DARK AGES (Schliefert '69). A very dark red self. Seeing it from a distance, the falls resemble near black velvet. A good performer. HC '68. \$10.00

CATALOG ON REQUEST

GEORGE SHOOP 1971 INTRODUCTIONS

2009 N.E. Liberty

Portland, Oregon 97211

SEA QUEST (Shoop '71). TB. E-M. 36". A new combination in white standards and medium blue falls with a tangerine-red beard. Flaring form. Closed standards. Fine increasing plant. Good branching. Sdlg. 67-30-1. Fanfare Orchid X Behold. \$25.00

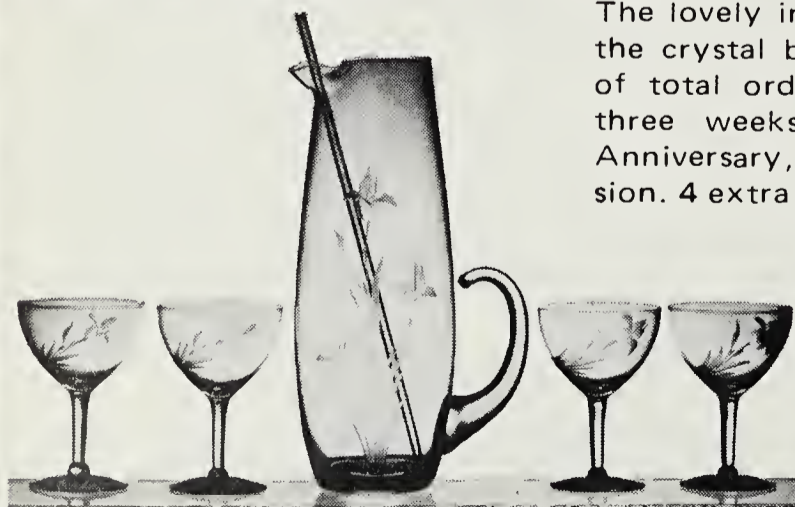
SNOW PEACH (Shoop '71). TB. E-M. 36". My first release of a peach-pink amoena. Standards are white, with just a slight cast of color at base. Clean peach-pink flaring falls. Closed standards. Good branching. Fine plant. I feel that this is a good advancement in this class. Sdlg. 66-20-2. Latin Lover X sister sdlg. 64-16 series. \$25.00

WINTER FIRE (Shoop '71). TB. M. 36". A frosty blue-white with a very red beard. A well-formed ruffled flower. Heavy substance. Well branched. Fine plant. Really different. 61-9 lavender blue X 63-18 lavender blue. \$25.00

All three plants. \$60.00

STARBRIGHT IRIS CRYSTAL EXCLUSIVELY DESIGNED BY AN IRISARIAN FOR IRISARIANS

No. 59. 6 piece Martini Set. 56 oz. ice-lipped pitcher with stir-rod and four glasses \$12.95



The lovely iris design is permanently handcut into the crystal by skilled artisans. Please include 10% of total order for postage and handling. (Allow three weeks for delivery). Ideal for Birthday, Anniversary, Trophies, Awards, and Every Occasion. 4 extra glasses \$7.95

STARBRIGHT IRIS CRYSTAL

Charles C. Jack

622 Locust Avenue

Weston, West Virginia 26452

(See January '71 Bulletin, pages 78 and 82, for additional items available.)

1971 INTRODUCTION

BREAD AND WINE. E-M. 32". \$25.00
(REPARTEE X 65-21)

White standards; claret red falls, bordered white; yellow beard.
Flowers flaring and ruffled.

MRS. KENNETH D. SMITH
221 BENEDICT ROAD, DONGAN HILLS
STATEN ISLAND, NEW YORK 10304

ETCHED BURGUNDY

Hamner seedling (Garrison selection). (Garrison 70). Sdlg.
64-29 x 21 X 4 x 11. TB. 30-32". Rebloomer.

Greyed purple ground, white overlay heavily veined, plicata.
Ruffled falls burgundy. Burgundy stripe center of falls. Beard
mustard, tipped gold. Yellow buds. Reblooms. \$17.50

THELMA'S IRIS GARDEN

25109 Jefferson St.

Murrieta, Calif. 99362

Hugo and Dora Wall

1305 North Yale

Wichita, Kansas 67208

1971 INTRODUCTIONS

YOO HOO. 34-36". Patience X 63-57: 60-65 x sib. 60-65 involves
Hidden Fire and Emery's 49-86. This is a large, tall magenta. . . . \$20.00

DEAR ONE. 28-30". Riviera X Limelight. Pale pink standards; white
falls with a bit of pink around the edges. The beard is tangerine. Flowers
are horizontal and laced. The substance is excellent. \$20.00

MAY GREETING. 32-34". Maytime X 59-77A: Queen's Taste x
(Matule x Miss California). Standards very near white; falls blended rose;
beard white. \$15.00

THROUGH THE YEARS. 32-34". 57-9 (white sdlg. x Storm Warning)
X Mansion House. Standards are medium violet (darker than the
Melodrams type). Falls are a darker violet. \$15.00

**STARBRIGHT CRYSTAL
EXCLUSIVELY DESIGNED BY
AN IRISARIAN FOR IRISARIANS!**

**900—5 piece Wine Set. 28 oz. Wine bottle with
four 6½ oz. cheateau wine glasses....\$14.95**



STARBRIGHT IRIS PATTERN: AN IDEAL GIFT FOR Birthday, Anniversary and Every Occasion. Hand-made, hand-cut and designed in West Virginia factory. Please allow ample time for shipment from factory. Please include 10% of total order for postage and handling.

4 extra glasses \$7.95

Starbright Iris Crystal

Charles C. Jack
622 Locust Avenue
Weston, West Virginia 26452

Gene and Jerry's Iris Garden

39 E. Patrick St.

Frederick, Maryland 21701

Introductions of G. and G. Burger and Mr. George Crossman

SAILOR'S SKIES (G. and G. Burger '71) \$25.00

Sdlg. C-23. Ribbon Round X Blue Tattoo. TB. E-M. 34". Very lovely white ground plicata with blue-violet stitching. Showy medium blue-violet stylecrests; light yellow beard. Good substance, branching and bud count. Healthy blue-green foliage. This is the seedling that won second in the judges' voting at the '69 Region IV convention.

LADY OF LOUDOUN (George Crossman '70) \$12.50

Sdlg. 55-35. Rippling Waters X Whole Cloth. TB. M. 36". Very lovely variety, with closed, arching standards of light lavender-blue, with narrow margin of darker lavender-blue; and flaring, ruffled falls of light lavender-blue, with wide border of darker lavender-blue. Yellow-tipped white beard. Very good substance, branching, and bud count, and healthy blue-green foliage. Is proving an excellent parent.

Our list of most of the newer varieties sent on request

Introducing HONEY HEART Sdlg. No. 163-3N. TB. 39". ML.

3N: (Black Forest x Chivelry) x Schroeder 61-132-3: (((Lipstick sib x ((Love Story x Chivelry) x Hall Pink sdlg.))) X Blocher sdlg: (((Arctic Flame sib x Bluebird Blue) x Fleeta)) x Sib.)))

This lovely formed, ruffled amethyst violet flower (Wilson 35/2) has a delicate blending of blue below the orange-buff beard. This same orange-buff color appears on the shoulders of the flower as it ages. Plant, branching and stalk are all very good. Fertile both ways. **\$20.00**

Nadine Yunker

P.O. Box 8

Taycheedah, Wisconsin 53090

* "REBLOOMER"

FALL HARMONY (Robert Newton R 1970).

Seedling N64-6, 30-36", Violet Harmony X Fall Primrose. Tall, well branched with strong large stalk. A large bloom and form like Violet Harmony. Standards beige, falls lavender. Excellent bud count. Good hardy grower. Pollen fertile and sets seed well. Begins rebloom in August and continues till November in Mass. \$20.00

Dr. Robert Newton
Azalea Farm

106 Love Lane

Weston, Massachusetts 02193

1971 INTRODUCTIONS

SONG OF ERIN. Sdlg. 67-20A. (Involved breeding on request). We are pleased to introduce this blue-bearded iris of unusual coloring. Standards light uranium-green with deeper flush at base. Outer edges of sap-green falls have faint flush of uranium-green which deepens to a blush at hafts. Petals broad, rounded, somewhat ruffled, and of smooth texture. Blooms early to midseason, with 3-4 way branching on 36" stalks. HC '69. '70.

\$25.00

JADE PARADE. Sdlg. 63-24. This border bearded chartreuse self, of broad flaring form, just misses the MTB classification, and is an arranger's delight. Falls have blush of fern-green at hafts, with fine texture veins radiating from mustard-brown beard. Blooms midseason. 20-24". HC '68.

\$20.00

RIVERBANK GARDENS

George and Lura Roach 2931 Tyburn Avenue Los Angeles, Calif. 90039

WANTED

Peckham, Ethel Anson S. (ed.), *Alphabetical Iris Checklist 1939*.

Randolph, L. F. (ed.), *Garden Irises*.

Vallette, Wilma L., *Iris Culture and Hybridizing for Everyone*.

"Bulletin of the American Iris Society", numbers 175, 169, 156, 155, 144 and *all* earlier numbers.

Jim D. Seeden

2606 West 93 St.

Bloomington, Minn. 55431

or call collect — 612-888-2206

HALCYON SKIES. TB. 40". M. B1F. First Violet X Blue Sapphire. Striking cobalt shading to indigo; pale yellow beard; flaring. \$25.00

RIOT. TB. 28-30". M. RV3. Majorette X Mary Randall. S maroon-rose; F paler maroon-rose fading in center to pale pink; pale yellow beard. Well branched. \$20.00

D. R. A. Wharton

3 Highland St.

Natick, Mass. 01760



Mr. Julius Wadekamper, Editor

HOW TO JOIN A ROBIN

All AIS members are urged to take advantage of our main line of membership communication. Select the topic that interests you and send your application directly to the chairman. It will help us to place you if you will tell us something of your garden, your experience with irises, and about yourself. Nearly 300 robins in 25 different topics are available.

General Chairman Mrs. Meredith Christlieb, RFD 1, Severy, Kan. 67137

Irises in General (great for Beginners) Mrs. L. S. Legner, Box 225, White Fence Acres, Rochester, Ill. 62563

Tall Bearded: Miss Leah Ralls, 300 East Fifth St., Edmond, Okla. 73034

International Robins: Miss Jean Ralls, 300 East Fifth St., Edmond, Oka. 73034

Hybridizing Robins (Advanced, Average, Beginner): Dolores Hoburg, RD 3, Cedar Run Road, Allison Park, Pa. 15101

Smaller Bearded Irises (includes Medians in General, Median Hybridizing, special rounds for MDB, SDB, MTB, BB, and Aril-medians). Mr. Albert Ellis, 19 McClure Ave., Brantford, Ontario Canada

Aril-Arilbred Irises: Mrs. Joseph E. Terrill, R 1, Burlingame, Kan. 66413

Artistic Division (Arts-Crafts, Designer-Arrangers, Antiques-Artifacts Cillecting): Mrs. Merrill Johnson, 2275 Kensington Ave., Salt Lake City, Utah 84108

Beardless Irises (Spuria, Siberian, Japanese, Species & Natives, Japanese, Louisiana) Mrs. Alan Reid, 17225 McKenzie Hwy., Rte #2, Springfield, Oregon 97477

Historical Mrs. Harriet Segesseman, 330 Crescent Drive, Franklin Lanes, N.J. 07417

Regional Robins: Your Region Robin Rep or Mrs. Hoyt Smith, 138 Ridge Rd., Little Rock, Ark. 72207

Reblooming Irises: Edwin Rundlett, 1 Fairview Ave., Staten Island, N. Y. 10314

CONVENTION '71 WICHITA ROBIN PROGRAM EVENTS

Robin headquarters will be in the Pioneer Room on the Radisson Mezzanine, right across from the main convention registration area. Sign the robin registry and pick up your special name tag. Plan to attend the Robin Program Reception following the Welcome Dinner on Wednesday night.

MEET THE NEW FL EDITOR

Julius Wadekamper comes to Flight Lines with a rich and interesting background. A native Minnesotan, he was graduated from St. Edwards University in Texas, and taught in New Orleans, Milwaukee, ten and one-half years in Brazil (four years as principal of a high school for boys), then at Coon Rapids Senior High School and Shattuck School. He now is attending the University of Minnesota, having been awarded a research assistantship. He says he was born with a love of plants, and belongs to many plant societies. He now is president of the Twin City Iris Society. His vital interest of and knowledge of many things should prove to be a real asset to Flight Lines.

His address is 2231 Hillside, St. Paul, Minn. 55108

NEW ROBIN CHAIRMAN

Hello, flower lovers!

Your very new National Robin Program Chairman is awed by the responsibility of the job she accepted after much study. However, Peg Grey thinks I can do it . . . so I'll do my best.

The program is running smoothly after Peg's reorganization and I hope to keep it that way.

A bit about myself?

My husband and I live on a farm in the SE corner of Kansas, our home being quite near Otter Creek. Chris' hobby is horses and my main one is . . . you guessed it . . . all kinds of irises. I hybridize, fight weeds and revel in blooms as we all do; grow impatient for bloom time, despair during droughts or extended rainy periods and take the bad along with the good.

Robins have been such an important part of my AIS membership! When I first joined Robin IOTA . . . the name fitted the applicant, but you know, it wasn't long until the Director felt I should leave it and join ETA Robin. After several years, I still write in ETA Hybridizing Robin and now direct it. The members are counted among my very good iris friends.

When asked to direct the Iris in General Robin, joined to learn more about other-than-TBs (the director had resigned) . . . I hesitated. Didn't I already have enough work? I could think of all kinds of excuses. But I told myself that others had kept this Robin going for my benefit; now it was my turn. What a lot I've learned from friends made through Robins. We've shared seeds, plants, information along with heartaches, marriages, births . . . you name it, we've shared it. (well, almost.)

I plan to continue along the path cleared by Peg. It is hoped the Robin Program will continue to be the wonderful organization it now is, with everyone anxious to receive their Robins, reading them with interest and appreciation, writing their letters to share a bit of their lives with others and hustling the Robin on its flight to the next member. Instead of a courtesy card to tell the Director of its flight, why not send a nice, newsy letter including bits of history you may be too shy to put in the Robin (or didn't think of at the time.) With only a cent difference in postage . . . it's a bargain that will pay big dividends through better understanding.

Be sure to report to your Division Chairman, Directors . . . help her with all kinds of information she'd like to know; the Robin made a quick flight or not; everyone kept it moving and remembered the courtesy cards or not; a change in flight list or a member dropout . . . she's interested . . . tell her!

Division Chairmen; you have my gratitude! You are doing your jobs well . . . the program is growing . . . share your thoughts and reports with me; they'll be most welcome.

I have looked over the list of Robins now flying, and am astonished to find so many, and such variety . . . I want to join them all. Wouldn't it be fun to have a book of all Robin letters, stapled together? No . . . the returned letters are my diary. One day, they'll likely make a colossal bonfire . . . but now they are kept for reference. See you in Wichita in May? Come in and get acquainted . . . I'll be registering Robin members.

Leda Christlieb

WELCOME TO A NEW TOP ROBIN!

Peggy Burke Grey

Your AIS Robin Program has a new chairman and nothing gives us more pleasure than to turn over the program to Leda Christlieb of Severy, Kansas. Leda has worked long and faithfully in the Program since its inception and has been of immeasurable help in guiding its policies and projects for many years. As a robin member in many divisions, a Robin Director in Irises in General and Hybridizing, as a Division Chairman for Aril and Arilbred Robins, as a robin reporter and editor, a Regional Bulletin Editor, this lovely lady has served AIS and the Robin Program so competently that we are indeed fortunate to have her as the new RP Chairman. We wish her well and know that she will find the same kind of happy enthusiasm for the Program from all the division chairmen and Robin Directors with whom we have loved working and sharing this great iris hobby.

In retiring from the Robin Program after having helped to operate it since its first inception, we look back on the many years of enjoyment in working with hundreds of wonderful people. It would be absolutely impossible to name them individually, but to each and every one we express sincere thanks and most deep appreciation, to the Divisions Chairmen, Robin Directors, Robin members and the corps of Flight Lines staff members who have worked so beautifully to make the Robin Program perhaps our most important service to AIS members.

Your AIS Robin Program is designed to be self-perpetuating. Each Division Chairman is a specialist in the irises the division represents, as well as in the mechanics of administering a robin program. Each special interest iris has a robin program within the AIS Section sponsoring that type of iris which operates in extremely close coordination with our AIS Program until they are practically indivisible. In this manner AIS is able to promote the interest and knowledge of every kind of iris and close iris relations, as well as different iris oriented interests such as Photography, Arranging and Artistic collecting and crafts. The administration of the whole program is quite an all-encompassing job, demanding knowledge not only of AIS and each of its Sections and Affiliated Societies, the personal contact with the people working in them now and in the past, but of the people coming into the Society and among our Youth Program members who will be the Robin Programs perpetuators. The spirit of fun and friendship which the robins themselves foster so well is nowhere more evident than among the program's chairmen, and its topside administrators.

From reporter Ed Hubbard: Considerable discussion of origin of term Hogarth curve. Finally traced back to English artist William Hogarth . . . Martha Whitten of Ark. reports that BABBLING BROOK had the substance to take the

light hail and heavy rain . . . Helen Waters says that the kitchen cleanser Comet works with soft rot.

From reporter Georgia Legner: Bess Robertson (Ohio) reports on mulching as soon as it gets cold and before ground freezes, thus preventing the breaking of lots of little roots with constant freezing and thawing. She also reports that gypsum on and around rhizomes seems to prevent winter rot . . . Tom Ford (Va.), plants his iris seeds in 3" cedar flats, in mixture of topsoil, peatmoss, sand and perlite. Flats are soaked, and burlap placed directly on soil, with leaves or peatmoss on top of the burlap. Boards are placed over this, and then pine branches and chickenwire. Seeds stay moist all winter long, and germination is "all too good.",,, Barbara Whitehouse (Mass.), cuts circles of 6" nylon net and threads twine around edges. Seed pods are shelled into centers of net circle, and thread is drawn together, and tied in a bow knot. The tag of the cross is inserted. Bags of seeds can be hung to dry; circulating air prevents mildew. The whole bag can be soaked before planting time without spilling seeds . . . Judith McLeod (N. C.) reports that certain kinds of soil take more nitrogen than generally thought desirable for iris culture . . . Georgia reports of the thrill she had in seeing an old 1930 catalog at the Region 9 meeting, with colored pictures of AMBASADEUR, SHEKINAH, MORNING SPLENDOR, PALLIDA DALMATICA, CARDINAL and others.

From reporter Lorena Reid: Most of those writing seemed to think it desirable to cut Siberian leaves in the fall, although some cut whenever the leaves dropped over and became unsightly. Opinions on mulching varied, although it was noted that most of the New York convention gardens were mulched. Dorothy Hamilton (Mass.) reported that she liked to mulch new plants, and anchor them with a rock to keep them from heaving in the winter . . . Phyllis Zezelic (N. Y.) reports on the size of Dr. McEwen's new Siberians.

From reporter Barbara Whitehouse: Jane Ritchie (Ala.) writes to try TREND if you want something unusual in irises. Chartreuse standards, olive falls, and lavender beard . . . Both Georgia Legner (Ill.) and Barbara Whitehouse (Mass.) report CUP RACE as spectacular. Georgia opines that WINTRY NIGHT, with standards a black shade of blue-purple with white infusion in center, and falls same shade of blue-purple with white infusion radiating down from and around the beard, is a much overlooked iris . . . Leda Christlieb (Kan.) reports that she plants the seeds, covers them with dirt, and then mulches with sand to hold the moisture. She says no more babying for her . . . Bob Schoof (Utah) has been working with a theory that ground and air temperatures affect rebloomers. It is interesting to note the effect that clouds, wind, shade, even watering, will have on soil temperatures. Even a thing as small as an iris leave shadow will drop the soil temperature by two or four degrees at a reading the depth of a rhizome . . . In hybridizing, Patricia Adams (Wash.) found that HAPPY BIRTHDAY took most often, and she is enthusiastic about a cross between HAPPY BIRTHDAY and FROST AND FLAME . . . Earl Stanley (Ill.) reports in planting pumila seeds that he uses an old push plow with a three cornered shovel, which makes a V-shaped trench about 2½" to 2" deep. He sows the seeds in this trench, covers with compost or good dirt to one-half inch deep, and then fills in the balance of the trench with peat moss. He says he had the best germination in open ground in this way. He never moves them; lets them bloom in the same row.

From reporter Harriet Segesseman: Among the plaudits the group gave for superior irises were those for RUFFLED CHERUB, BECK LEE, BURNING DESIRE, IRISH LILT, PIXIE PASTEL, NEW IDEA, SUPER-EGO, NEBRASKA

NAVY, PINK TAFFETA. That covers a lot of kinds of irises . . . MayBelle Wright is looking forward to the results of the crosses of MISS RUFFLES with pumila varieties . . . Several mention RIPPLING WATERS as a good parent . . . K. C. Vaughn (Mass.) reports that for those who search for green, IRISH LILT is it, that the MTB GLINT OF BRONZE is a good color—yellow with metallic flashes of copper all over, and that CON BRIO rebloomed . . . And profuse praise for STEP CHILD . . .

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FROM *The* EDITOR'S DESK

About the beautiful LOUISE WATTS, pictured on the front inside cover of this issue: Our mental image is of a flower whose center is red-violet to violet, with a distinguished brownish edging. Both slides we looked at, however, are close to the color shown in this Bulletin, and we would guess that the pictures were taken in a light that reflected the brown over the entire flower. But whatever the color, LOUISE WATTS is a very beautiful iris, and named for a very gracious lady.

Correction of item 4, page 42, Jan. 1971 Bulletin, in Jean Witt's article on *plicatas*. Since no direct link to either parental species has been found, is there another possibility — rather than originating within *I. pallida* or within *I. variegata* might *plicata* pattern have appeared after and as a result of the long ago crossing of two species — might it, in fact, be the product of hybridity?

Memory is one of the most useful and delightful attributes that man possesses, but there are times when it can be fickle, unreliable and disconcerting. Two of the contributors to the Bulletin have written expressing deep regret about the tricks memory played on them in reporting about Mrs. Austin, and your editor is equally chagrined that he did not catch the errors. To set the record straight, and with our regrets to Mrs. Austin, it is Mrs. Lloyd (Gladys E.) Austin of Placerville, Calif.

Volume XXV of the IRIS CHRONICLES of the Historical Iris Robins of the American Iris Society arrived at our desk. It is a 176-page volume devoted to Dave Hall and his works. We have found these Iris Chronicles invaluable in tracing historical lore of the Society and its members. Those who are interested should write Harriet Segessemann, Chairman of Historical Robins, Franklin Lakes, N. J. 07417, for a complete listing of the titles and the prices.

The Kern County Iris Society will hold its spring iris show on April 17 and 18 at the Bakersfield High School Cafeteria, 14th and F Sts., Bakersfield, Calif.

The Inland Iris Society is sponsoring the annual Riverside Community Flower Show on April 24-25 at the Riverside, Calif., Municipal Auditorium.

There appears in the Nashville paper a two-page article about Jesse Wills, and his accomplishments as a poet. Jesse really is a man of many talents — the phrase "gentleman, philosopher and scholar" truly can be applied to Jesse Wills.

Raymond G. Smith reports elatedly that for the first time he has a rebloomer in August that had flowers that lasted five days. It does appear that rapid progress is being made with rebloomers.

The Southwestern Michigan Iris Society will hold its 19th annual iris show on June 5-6, at West Main Hall, Kalamazoo, Mich. The Waco Iris Society is holding its annual iris show April 15 at the Nell Pape Garden Center in Waco, Texas. The 31st spring show of the Southern California Iris Society will be held on April 17 and 18 in the Lecture Room of the Los Angeles County and State Arboretum, Arcadia, Calif., 300 N. Baldwin Ave.

The official thanks of AIS to the Connecticut Iris Society for a \$25.00 contribution to the Research Fund. Under Dr. Allen's direction, some studies now are going on, one of which is reported in this *Bulletin*.

Received a delightful letter from W. D. Simon, Westland, Mich., with an equally delightful column he wrote many years ago. We are going to have him write for the Bulletin. The column highlighted with the right touch of emphasis the sort of problems many gardeners have, in terms that make one visualize the problems and laugh at them.

WICHITA
1971



ANNOUNCEMENTS

CORRECTION ON DATES FOR 1974 CONVENTION

The 1974 AIS convention, headquartered at Akron, Ohio, is set for June 2 through June 6, instead of the dates which appeared in the minutes. Many plan to attend this convention, and for those who like to keep a calendar for a long time ahead, we publish this correction.

In the DIS Awards, the Blue Ribbon Award went to NAVY FLIRT (Tutmauk). Again LEMON PUFF is a Dunbar origination.

REGISTRATIONS—INTRODUCTIONS

Registrations \$3.00 each.

Introductions: Free recording. Be sure that your catalogue or printed list of introductions is filed with the registrar and that each is marked plainly. Irises not recorded as introduced are not eligible for awards higher than HC. Irises advertised in the October 1970 and the January, April and July 1971 AIS Bulletins are automatically recorded as 1971 introductions. Mail to J. Arthur Nelson, 3131 North 58th St., Omaha, Nebraska 68104.

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All affiliates are entitled to a free showing of AIS slides once a year. Be sure to give Mr. Schreiner thirty days' notice, and order the slides in the name of the affiliated club, giving the name of the president of the club.

All affiliates are entitled to one silver medal and one bronze medal, free of charge for their show. Order these at the time the report is sent to the Exhibition Chairman.

If there is a change in the name of the president of the club, be sure to notify Mrs. McCaughey, Mr. Benson and the editor of the *Bulletin* at once, so that the proper name and address can appear in the *Bulletin*, and that the *Bulletin* can be mailed to the proper address.

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

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To those who have inquired: We have on file most of the original registration applications since 1960. These often contain more complete information than the necessarily cryptic published registration information. For those seeking to trace and identify irises, we can make copies of the original application for twenty-five cents. Likewise, we can reproduce any *Bulletin* article for twenty-five cents a page. Send money and requests to the Omaha office.

IMPORTANT

If you have moved, or plan to change address, or if your *Bulletin* address, including zip code, is wrong, notify

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THE AMERICAN IRIS SOCIETY

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 Mrs. Lloyd Austin, 2530 Carson Rd.,
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 Sitka Dr., Walnut Creek 94598
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 Road 204, Exeter 93221
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 Mrs. Ernest Bell, 1380 E. Chase Dr.,
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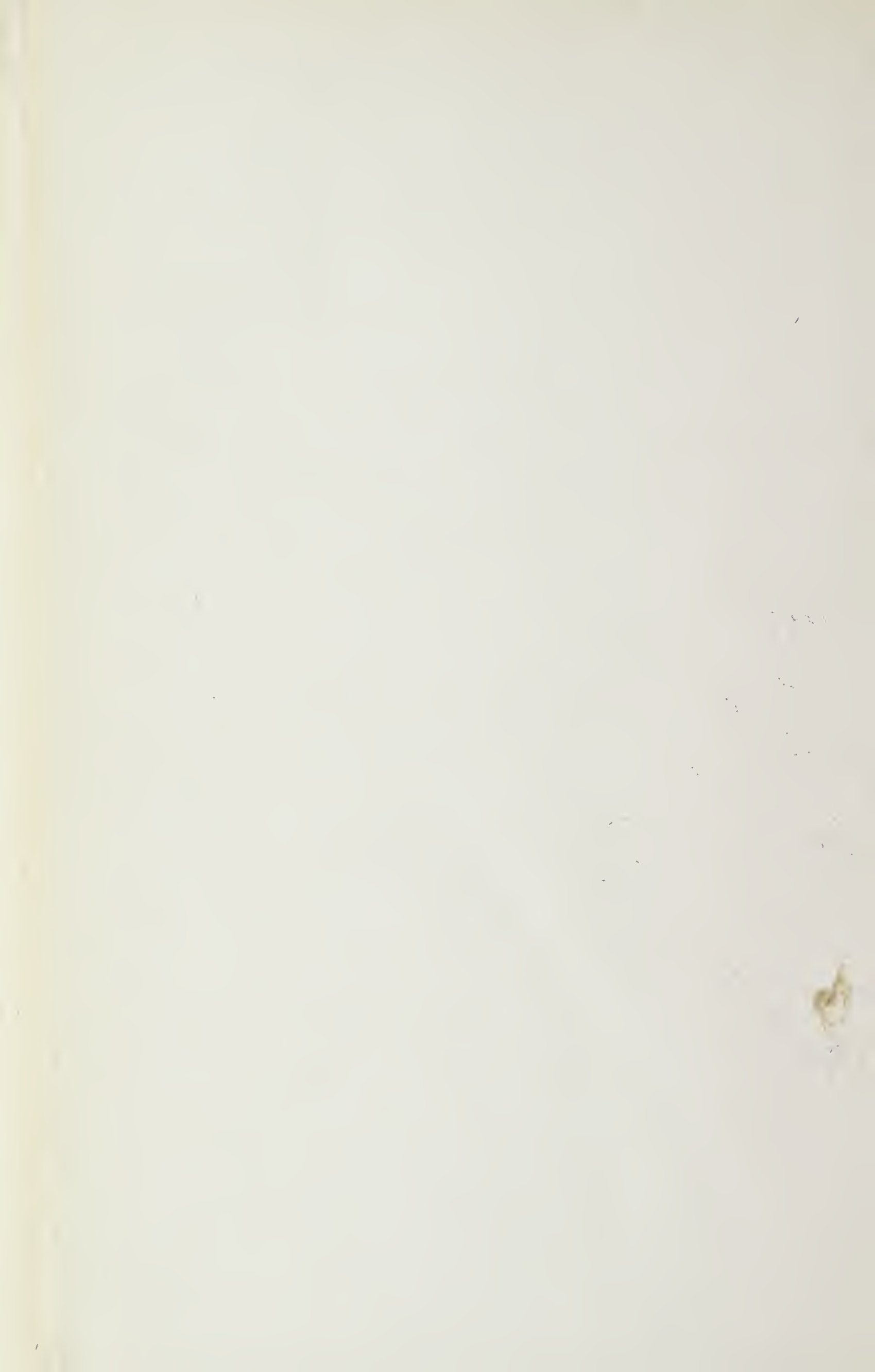
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THE AMERICAN IRIS SOCIETY

2315 Tower Grove Ave.

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THE BULLETIN

of the

AMERICAN IRIS SOCIETY

No. 202

July 1971

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The *Bulletin* is published quarterly by The American Iris Society. Publishing office 2315 Tower Grove Ave., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society, advertising, and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2315 Tower Grove Ave., St. Louis, Mo. 63110.

Communications regarding editorial matters should be addressed to Mr. J. Arthur Nelson, 3131 North 58th Street, Omaha, Nebr. 68104. For information about membership, advertising rates, and back issues, see sections under ANNOUNCEMENTS.

All copy due in editor's office fifty days before first of the month of publication.

The *Bulletin* is printed by The Livestock Press, Inc., 2830 "O" Street, Omaha, Nebraska 68107.

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FROM *The* PRESIDENT'S DESK

The Wichita meet is now history. For the second year in a row we had a near-perfect convention! The bloom was excellent, the events were carefully planned and precisely executed, the accommodations were good, the food was delicious! If even one complaint was voiced by the 544 members who attended (third largest in history, I am told), I didn't hear about it. George Torrey, general chairman, and his entire staff, deserve the plaudits of us all. It was a beautiful team effort! And finally the absolutely perfect weather (for which I take credit—see my prediction four months ahead in FROM THE PRESIDENT, Page 3, Region 18 Bulletin, Spring 1971) added the ultimate ingredient needed for a truly memorable convention.

Actually, the convention took on the aspects of an international one! Mr. Alan Johnson, President of Australia Iris Society, with his charming wife, captured the hearts of everybody. Our long-time friend, George Mace of South Africa, represented nobly his part of the world. And finally Mr. and Mrs. Bruce Richardson and Mr. A. H. Ellis again bore witness to "Canada Power". Every Region, with one exception, was represented.

I congratulate Dave Niswonger for winning the Presidents Cup with his RASPBERRY RIPPLES, and Steve Varner for achieving the honor of possession of the Cook Memorial Award with his NEWLY RICH. Both irises did themselves proud in the convention gardens.

The only regrettable fact encountered at the convention is the fact that we dropped in membership during the past year. But we have in Glenn Corlew a new and enthusiastic Membership Chairman (I was amusedly impressed by his classic one-word "speech" before the vast crowd on Wednesday evening!) When he shouted "Help!", he said it all! AIS is mounting a new membership campaign, and you will be rewarded appropriately for getting new members. And the Region will be given every incentive to bring in the renewals. So let's all make it our personal responsibility to get those new members and hold the ones we have!

We have received many petitions to reduce the minimum number of votes necessary for an iris to win the HM Award—some want the current minimum of 25 votes cut back to 20, many have petitioned that the minimum be made 15 votes, and some have asked that it be reduced to 12 votes. At the same time, many are stoutly imploring that the minimum be left at 25 votes, the current requirement. Each member of the Board has his own opinion as to the proper minimum vote, but as always we want to reflect, as best we can, the wishes of the majority of the Society. We have, therefore, requested that the RVPs furnish us prior to the November Board meeting the consensus for his Region. Therefore, if you have strong feelings about this important matter, be sure to express them by letter to your RVP no later than October 1. The Board expects to settle the question in November, based on the results of the polls by the RVPs.

I have already reached the limit of my allotted space, but I am anxious to discuss one final matter: our Youth Program. Mrs. Ann Dasch, the dynamic chairman, has now enrolled 131 youngsters. The program is really "rolling" and is gathering considerable momentum. But she is aiming for 500 Youth members by the end of next year—and I believe she will get them! To do that she needs your help. We all agree that we must attract young members, if our beloved

Society is to survive and continue to grow. Please, therefore, write to Mrs. Dasch and tell her how you can and will help!

As I enter the final six months of my three years of service, I am inspired by the help you have given me, and I am grateful to each of you. I challenge you to help me with one added "big push". And let's finish up this year in a final "burst of glory"!

Affiliates of the American Iris Society

Changes from and additions to list in April 1971 Bulletin (pp. 6-7).

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SOUTH PLAINS IRIS SOCIETY, *Pres.*, Mr. Rayford Fowler, Brownfield, TX.

OREGON WANTS **YOU** IN '72

Bennett C. Jones

The Society's annual convention next spring will be centered in Salem, our beautiful capital city in the broad Willamette Valley, only minutes away from gardens famous in iris history—Cooley's, DeForest's, Tompkins' and the Schreiners'. Three of them are very large gardens, each containing more irises than many of you ever expected to see at one time. Because these will be the only gardens on the tour and the time to reach them is short, the day's activities will begin a little later, allowing more time for your night's rest and for a less hurried breakfast. Some of you will miss, as I will, visiting the small private gardens normally seen on the tours, but here again less travel time provides more looking time, which is what you will be coming to do. The whistles will sound only for lunch and when it is time to end the day.

On the first day of the tours we will have lunch at Oregon City, Oregon's first capital city on the Willamette River, not too far from Portland. There will be a short stop for a view of the river, a paper mill on the other side and perhaps a glimpse of fishermen fishing for salmon below the falls. For lunch on the second day, we will wind through lush green hills into the forest to Silver Creek Falls State Park. There will not be time to follow the trails in this scenic area, but the first of seven waterfalls, a very beautiful one, is close by and worth seeing.

With essentially the same experienced committee we had for our convention in 1960, and inspired by the excellence of the meeting in Wichita, we believe we'll have a convention you will long remember.

The dates are May 24-27. Begin to plan for it now. We do want you in '72.

The Wichita Warm Welcome

Harry Kuesel

The sky was a bright clear blue as we landed at the Wichita Airport Wednesday morning. You could tell when you got in that taxi to the Radisson-Wichita Hotel that something was "comin' on!" "Where do all these people come from?" the taxi driver wanted to know. Most of the 50 states and Canada, I told him, and even far off Australia and South Africa.

Eloise Woodman and her staff did a great job at the desk. It was strategically placed to sell AIS medals and literature, in addition to passing out registration envelopes, so they were very busy people. I noted that one of them was placing map pins in a large U.S. map. I waited until I saw George Mace's name show up out beyond the ocean somewhere, and chuckled as I hurried off to the MIS Board meeting. Arrived just in time to help elect Carol Ramsey as Lee Eberhardt's successor as president of MIS and enjoy a delightful lunch. I stopped to admire the iris rugs at the information center and the superb Median Iris Display designed by Jean Witt. This is a perfect example of a good educational exhibit. It traced the development of median irises through the early ancestors, to the milestones, and came right down to the pictures of median award winners. The Siberian Iris Society was not to be outdone with a colorful display of McGarvey's EGO, SUPER EGO, ID, DEWFUL and FORETELL. And then came a convention masterpiece, a full fledged all Spuria Iris Show, with HIGHLINE LAVENDER (we were thinking of you, Eleanor) a prominent feature. Marilyn Holloway, both the iris and its namesake, were much in evidence. What a lovely showstalk! Ben Hager's ELIXIR won Best in Show, and Sid DuBose was there and mighty proud.

It soon was time for the Median meeting, and after they got that microphone fixed, Mildred Brizendine delivered one of the finest talks ever. "Don't blame me; blame Lee!" she said. Well, I hope they print her talk, so we all can congratulate Lee on his foresight in getting Mildred on his program. Her standards to live by are worth remembering.

At the Welcome dinner, Carol Ramsey, Program Chairman, told us about the sixth floor breakfast buffet. This was centrally located for many of the guests in the new wing. I liked the service, too. Hot biscuits and coffee came along promptly when I sat down with my ham and eggs. Bill Bledsoe, AIS president, was the principal speaker at the Welcome dinner. He confessed that he was glad to be there, and most clapped in appreciation to show that they agreed with him. We have an AIS Foundation at last. Region 2 brought along their historic Golden Anniversary flag and donated it to the AIS historian for safekeeping, to mark the occasion. In case you didn't know who that cute blond doll is—that's Helen McCaughey (the real McCoy).

The garden of Gene and Marjorie Harris was our first convention tour garden stop. The irises were certainly well grown here. I'd just met Beebee Knopf the day before at the "Charcoal Cafe" that turned out to be a popular iris society hangout. Beebee's ON TARGET, stately bright but light yellow, and WEST COAST, a fine deep yellow gold, were outstanding here. So was Marv Olson's ARCTIC DAWN. Beebee reminded me to look for her vibrant brown BB, MAYNARD. I found it. Not bad, I thought. Here I saw a most unusual fancy blue plic, HEY LOOKY (W. F. Brown). Striking stalk!



Marjorie and George
Harris



Fred and Ada Paulsen



George and Roberta
Torrey

Our next stop was at Fred and Ada Paulsen's. This garden was a marvel, in that they had great bloom in the shade. Plough's CHIEF MOSES had a fine showstalk. Next I came upon a pair of delightful green statuettes. I later learned that these were done by Russ and Ruby Morgan's son, Don, and his wife, Kathy, who have lots of talent. The garden abounded with these great little conversation pieces—turtles, dwarfs and elves. Speaking of elves, there was a statuette of Grumpy, with the warning,

*"When you are in my garden,
Away from your own home,
Please don't pick the faded blossoms,
Jes' leave 'em alone,*

*Remember, you ain't in your garden.
Here, you ain't the boss.
Some faded blossom that you pick
May destroy my favorite cross!"*



Grumpy's Warning to Visitors in Paulsen Garden



HEY LOOKY (W. F. Brown) in Harris Garden

Joe Ghio's PENTHOUSE and Glenn Corlew's CHERUB CHOIR, two irises that do well back east, were putting on a good show. Melba Hamblen's TOUCHE was at its best. Opal Brown's BUFFY, with its heavy laced edge, and Larry Gaulter's SAN LEANDRO, with its fine branching, were other crowd pleasers. RASPBERRY RIPPLES (Dave Niswonger), a four-way branched raspberry self, was great. It isn't often an iris enthusiast can find a spot where he can fish right at the back of his iris garden, but Fred managed to pick such a site. There was a

sign pointing to the Little Arkansas River, with the words "Just Wait Till Tomorrow." And one pointing in the opposite direction, advising us, "You Should Have Been Here Yesterday." That may have been right as far as fish were concerned, but they sure picked the best day for us to see their irises.

We were soon back on the bus headed for our next stop, the garden of Convention General Chairman George Torrey and his wife, Roberta. Velma Carlson, Roberta's sister, gave me a guided tour which I enjoyed very much. There was a familiar dark—near black—iris that was attracting a crowd. We went to take a closer look and it was Fred Gadd's YANKEE BOY. This later turned out to be a runnerup for the Cook Cup. We were pleased to see a Connecticut Valley iris doing well far away from home. Here I got my first glimpse of Joe Ghio's VENERATION. This is a bit deeper violet in tone than PENTHOUSE, and has that superb showstalk. Opal Brown's light lilac-blue with a blue beard, EAGLE HARBOR, drew many admirers. Jim Gibson's great new plicata in brown-red tones, KILT LILT, was doing fine.



Jake Schaff and George Mace (from South Africa) in Bartlett Arboretum

Our next stop was at the famous Bartlett Arboretum in Belle Plains. Ruby Morgan introduced me to Margaret Bartlett while we were enjoying a wonderful cookout lunch. While most of our conversation was about the great trees and shrubs that surrounded us, I got a touch of nostalgia when Mrs. Bartlett recalled a long list of stations on the Long Island Railroad, Southern Branch—Rockville, Center, Freeport, Baldwin, Wantagh and Massapequa. She lived there once and knew it well. Glenn Bartlett is a landscape architect and he has trained many trees and shrubs into interesting shapes. A spreading juniper that was growing like an octopus with tentacles in every direction was fascinating. Russ Morgan, Bill Peck and I share a mutual interest in trees, and the many kinds of cypress, pine and Japanese cedar got plenty of attention. George Mace and Jake Scharff were sharing reminiscences while the orioles chirped overhead. There was a separate table iris bed, and one for all Dykes Medal winners, too. Mrs. Ralph Ricker and her sister, Vera Ludden, from Sioux City, Iowa, walked over to look for BLUE RHYTHM. The superb stalk was there, but the flowers not quite out.

Freeman and Bee Yendall from Buffalo took a stroll along the water and found a clump of water iris, psueudacorus, doing well on a sunny bank.

Our last stop for the day was in the hybridizer's garden of John Ohl of Mulvane. Just ask, and he can tell you about the pedigree of most of the irises there, back two or three generations. John is working on pink plicatas and has a seedling that has a pink beard and light plicata stippling at the edges that is a real stepping stone from APRIL MELODY and one of the Haven irises, among the best of the named irises in this elusive combination of two recessive traits. Bob Schreiner was there to tell us about RUSHING STREAM, a deep violet with a self beard, and SAPPHIRE HILLS, a fine flaring blue. Both were doing well on one-year stalks. A Schreiner seedling in brown blended tones, A 472-4, had excellent branching and substance. As I walked out to see the hybrid peonies in full bloom at the far corner, I was reminded of Dr. L. F. Randolph's acre of seedlings at the 1958 convention. This garden had irises going out almost to the horizon.



John Ohl Notes Perfect Stalk on
FLUTTER OF PLEATS in Jones
Garden



Betty Wood Was Hard to Get on
the Bus in the Wall Garden

When I returned to the hotel I discovered that Kansas sun can be pretty hot in the late afternoon. I needed a nap, but had no time to take it before that lively Judges Training School session that evening. Several people told me that it was one of the most interesting judges training sessions they'd ever heard on the Ethics of Judging. One visitor suggested an interesting sequel, on "Ethics of Garden Visiting."

Our next stop was the rolling slopes of Jim and Lucy Fry. I noted that Jim had constructed a half dozen little stony dry wash trails to keep the bank behind his house from washing down on the lawn. It was a great spot for arils and arilbreds, and Paul Hoffmeister found that one of his had done well there. The bloom had faded, but the stalk was there, and Jim described it from memory. No small feat in a garden full of blooming treasures. Alta Brown's MTB, DAINTY DANCER, was worth a picture. Great branching. Dorothy Guild's BIT O' AFTON, Mary Louise Dunderman's CAROLINE ROSE, and Ben Hager's SHRINKING VIOLET were MTBs that kept the Median enthusiasts talking.

Then we toured to the garden of Orrie and Ivy Jones. This has perhaps the finest rock and fossil collection in all of Kansas, and we were told it was not Ivy's grandson but Ivy herself who brought them all there. The lady's powder



Richard and Carol Ramsey



Glenn Hanson, Hugo Wall and Ira Wood Hold Directors' Meeting in Wall Garden



Mabel Clare and Charles Jendel

room was quite a conversation piece, with all of its iris decorations. And the house that Orie built is one of those fabulous eighteenth century reconstructions one would travel many miles to see. The beams date from pre-Civil War days and came from St. Joseph, Mo. Later they were stored in Iowa in Orie's father's barn, and finally came to rest in Wichita. The huge fireplace, with most interesting stonework and with a lot of history, dominated the living room, and that kitchen, with utensils of a bygone era, still shining and glistening from daily use, showed they still were as practical and useful as the more modern-day conveniences. The herb garden was delightful, and a big sun dial constructed from a farmer's scythe, and the spokes of the dial interplanted with thyme, made a most unique time piece. And the irises here were mighty fine, too. John Ohl came over and talked to me about FLUTTER AND PLEATS and SECRET PAL, two of his originations I particularly liked. The former is a ruffled violet-edged white plicata with fine branching. The latter is an improved EMMA



"Bobbie" Jones and Ruby Morgan Stand in Herb Garden in Front of the Lovely Jones Home.

COOK type which did well not only here but in at least three other gardens. Rex Brown's BANDED BRONZE is perfectly named, and SILVER WEDDING, that did so well in New York, did very well in Kansas, too. I liked the crisp blue self by Frank Foster called AGE OF AQUARIUS. Perhaps the most unusual seedling there was Joe Hoage's clean chartreuz green with a bronzy green beard, 66-21A. Bennett Jones 918-2 is a lovely apricot with a lighter center.



Region 17 RVP Lester Brooks, Helen Reynolds, Henry Sass, Steve Varner, Australian Iris Society President Alan Johnson



Historic Cowntown

Our next stop was historic Cowntown where we had a great chicken dinner, and then spent an hour touring. They had a wagon jack, an ice plow, corn planter, wheat planter, and such aids to easy housekeeping as a shoe last, a corn sheller, broad axe, and grinding wheels of the late 19th century vintage.

Then we saw an Elias Howe sewing machine and an 85-year old square grand piano. Out by the covered wagons, as you might expect, a bed of historical irises was blooming, such as GRACCHUS, a purple-falled diploid variegata, dating from 1884, and a still older red variegata, HONORABLE, which came from France in 1840. Alan and Jean Johnson enjoyed the railroad station, now taken over by the barnyard animals.

The time passed quickly and we soon were back on the bus en route to the garden of Mabel Clare and Charles Jendel. This garden was not yet at peak bloom, but had much to see. I liked the rock garden with a trickling falls watched over by a flamingo figure. The beds were laid out for easy viewing. While stopping upstairs for a panoramic picture, I spotted Helen McCaughey talking earnestly with Cliff Benson. The Jendels have a fabulous collection of iris decorated home furnishings—sheets, pillow cases, tablecloths, draperies, ceramic tile, and even a waste basket with an original iris design by Ada Paulson. Among the irises a fine red bitone from Jesse Wills called ROUND DANCE was impressive. Gordon Plough's MARIACHI in yellow and rosy violet made a fine clump, as did Keith Keppel's MARICOPA, in tricolor plic pattern. Glenn Corlew's COUNTY FAIR, a fine light yellow, and Joe Ghio's MAHALO probably grew better here than in their home gardens. Another bicolor I liked was Sanford Babson's CHAPEAU, with light tan-domed standards and flaring rose-orchid falls.



Jendel Garden, Taken from Upstairs Window

Our next stop was at North Yale near Wichita State University, where Dora and Hugo Wall have their garden. All the irises were unusually well grown here, and we arrived while they were at peak. I looked for the Wall seedlings and could not find them, and later learned from the Walls' daughter that they were at another garden a few blocks away. I was pleased to see Cliff Benson's new ones doing well here. MAESTRO PUCCINI in a very ruffled blue, while PARIS OPERA is an even more ruffled lilac self. Another lilac slightly deeper that caught my eye was Rex Brown's EMINENCE. I liked its very blue beard. On the corner of the front bed was a new large lilac amoena by George Crossman called LADY OF LOUDOUN. I'm sure I'd have a nickname for a name as long as that, but the iris had a pleasing lilt and lots of personality. Lynn Flanagan's 64062-2 was a very smooth deep red with flaring falls and ruffled standards. Joe Ghio's ELOQUENT was just that, in light blue, with a blue beard. Steve Varner's NEWLY RICH put on a great show here. I liked Schreiner's SPARKLING SUNSHINE, in apricot-yellow tones. And another iris with a perfect name is Lloyd Zurbrigg's LACE NEGLIGEE. I wonder if it reblooms.

The last stop of the day was at the Ramsey garden—neat as a pin, too. I soon found Dick Ramsey's specialty is zoysia grass and learned that there are three varieties which he grows. Whatever it is, the garden had one of the finest lawns on the whole tour. Of course, Carol specializes in Medians, and it was great to see MINI SAPPHIRE doing so well. Other BBs in fine clumps were Cassebeer's SPUTNIK, Wolff's DEBBIE ANN, Jones' CRYSTAL BAY and Scheaff's LITTLE LYNN. I soon spotted Kay Negus on that path you take in to see the SDBs, but can't get out without retracing your steps. Kay was looking at FRISKY, a lovely variegata SDB from the Schreiners. Bob Jeffries had a nice purple with a bright blue beard in the BB class, J66-154. Among the tall, my favorite here was Tell's sandy plicata, CINNAMON TART. Also saw Bee Warburton's fine IB, ANNIKINS, blooming with a fine showstalk and four open flowers perfectly placed. There was an open space in the garden between IMPISH VIXEN and FOND WISH. It was filled with a big red ladybug in bright red, and a big green inchworm, in terra cotta, or some similar material. Carol's daughter and her boy friend, who knows how to take good pictures, were all over the garden taking candid shots. I liked a new yellow seedling in the BB class by Maybelle Wright, B-68-15.

It was a long day and we were glad to get back to the hotel and rest up for the Indian War Dance. I noticed several RVPs (Alice Hopton and Steve Varner) must have some Indian blood, because they danced just like the Indians without much coaching.)

The next morning, the buses took off for the El Dorado Gardens, owned by Helen and Bill Reynolds. This large iris garden was full of surprises. The beds were marked for rows for 1968, 1969 and 1970 seedling crops, with long rows of peonies used as dividers. The guest beds had traffic signs, a great idea, and "Wun Way" was a new way to direct traffic, but it worked. An interesting feature here was an iris guessing contest. All visitors were invited to identify ten irises in bottles lined up on a long table. If you could name all of the irises, El Dorado will send you a valuable iris prize. I liked Allan Ensminger's near black seedling, 56-14; short tall or BB, it still is a nice, well-branched black, and should be named. Keith Keppel's BALLYHOO, with cream standards and plum falls, made an interesting clump. Another conversation piece was George Mayberry's 68-8-5, a well-formed reverse bicolor in lemon and white. But the unusual part was the long handlebars protruding out and up from the beard. Someone dubbed it "Texas Longhorn" and we enjoyed it.

I was pleased to see Ben Hager's BALKAN GLACIER for the first time. It is a pale blue self with a deepening halo blue around the beard. This pattern is derived from the dwarf species *I. balkana*, where the spot pattern is dominant, but it is remarkable when carried through several generations to an iris 36" tall. Helen Reynolds does a lot of hybridizing, and I liked her 10-70, a wide plicata in the ROSY VEIL image, white with a stippled red-violet edge. Another iris that demanded attention was Gordon Plough's JUNGLE SONG, in electric violet tones. The color carried far across the garden.

The final stop of the convention was Watson Park. Here ten beds of guest irises had been laid out for the convention, each given tender loving care by a team of members. Here is what I liked—a special historical bed recreated by Bill Brown, to honor Jacob Sass. The first two irises Jake had were FLAVESCENS, an unspectacular yellow, and HONORABILE, a small variegata. From a chance bee pod on one of them in 1907 there appeared JAKE'S BLUE. Although HONORABILE and FLAVESCENS are diploid, JAKE'S BLUE was tetraploid. This was later crossed with MADAME CHEREAU, according to Henry Sass, and the resulting seedling called Sass No. 1. These two irises, both tetraploid, became the foundation of the famous line of Sass irises, culminating in the famous Dykes winner, PRAIRIE SUNSET. There are new irises in most gardens in this area, that even today are closely related to these Sass irises.

The next bed, "A", contained a fine clump of Joe Ghio's lime yellow, WILLOW WISP. A pair of excellent tangerine-bearded whites from Ruth Goodrick, MERRY AIRE, with a superb stalk, and CELESTIAL FIRE, with more flare and a bit more substance on a windy day. Dave Niswonger's RASPBERRY RIPPLES, Schreiner's A-692A, a big blue neglecta, and Jesse Wills' very clean yellow amoena, 54-67, were great. In Bed "B", John Humphrey's ANGEL'S ART, a nice purple plicata, caught a lot of shutterbugs vieing for the best photographic angle. Arnold Schliefert's ANGEL CHOIR perhaps had the heaviest substance of any white in the very stiff wind. And Steve Varner's NEWLY RICH in bright gold ruffles was supreme. In Bed "C" Luella Noyd's tailored and bright red-brown, POWER AND GLORY, was great. Schreiner's HAMMERED GOLD, a very apt name, was a real crowd pleaser. Steve Varner's 884, in shimmering pale lilac, glows with personality. In Bed "D", Roy

Brizendine's well-branched flaring apricot, B 61-64, appealed to me, and Rex Brown's ENCHANTED CLOUD, a fine white with a blue-tipped beard, was appealing. In Bed "E", Bennett Jones' ELIZABETH STUART, a fine blue tinted pink, with a blue-tipped beard, was most striking, and John Ohl's SECRET PAL had a superb showstalk with four open flowers. Bed "G" was mostly medians, and many had bloomed, but MTB CAROLINE ROSE, a rosy edged plicata by M. L. Dunderman, was worth a picture.

Bed "I" was devoted almost entirely to dwarf irises, and was well maintained, but bloom was past. This was also true of Bed "J", where the regelias and oncocylus were grown. But it was most helpful to the hybridizers to know which plants had done well.

The afternoon was spent at the Wichita Club Iris Show, and it was well attended. There were so many entries that it is impossible to give more than a brief account of the winner, WINTER OLYMPICS (O. Brown), exhibited by Eloise Woodman. How she ever had time to cut and exhibit a show stalk with all she had to do at the convention is remarkable.

And so as the convention drew to a close with a traditional banquet, we can only say, "Thank you, Wichita," for a job well done. We enjoyed your hospitality and hope to return some day. Our best wishes to all of you who made this a warm and welcome one.



RVP Region 2 Harry Kuesel Presents the Golden Anniversary Flag to Historian Helen McCaughey. Carol Ramsey and George Torrey Look On.

(Picture by Fritz Robinson)

WICHITA 1971

The Editors

All Photo Credits to Fritz Robinson

How does one spell out in summary the fabulous story of WICHITA 1971. We leafed fruitlessly through the pages of the unabridged for adequate superlatives; we finally resort to the language of our profession with a grade of A++.

From the moment one entered the registration headquarters, it was so very apparent that here was a finely honed and synchronized organization that had assessed carefully all the needs and moves in an iris convention, and had as carefully studied the emergencies and contingencies that could arise, and were prepared to meet them. The unflappable general chairman, George Torrey, and his smoothly efficient committee heads, Carol Ramsey, Ralph Stuart, Eloise Woodman, Bill Brown, Roberta Torrey, Ralph Potts, Fred Paulsen, Dwight Hobbs, Mabel Jendel, Velma Carlson, Wayne and Hazel Hinderliter, Tom Freidline (Honorary Mayor of Watson Park), Laura Romick and Leda Christlieb and their assistants moved with ease and dispatch through the complex tasks of the convention. As one watched them, he could not help but feel that these are good people, the kind we like to have as neighbors and friends, people who did their assigned tasks willingly and pitched in to help others, and the words rose in me, "This is what America really is!"

The programs were staffed with people who were able to translate their expertise into the language of the irisarian thirsting for knowledge; the gardens were at peak or near peak for TB irises, with plenty of most of the other sections to challenge the interest of the visitors; the thousands of irises were well grown; and someone spoke of a direct gold phone connection with the Man Upstairs. Certainly someone or something had corraled the blazing sun and the driving winds of Kansas. Laura Romick's iris arrangements, so much in evidence around the hotel, added charm and beauty; and it was so very nice to see Judge and Mrs. Rogers, Carl and Mrs. Schirmer, and Henry Sass, all of whom have done so much for the development of irises into the beautiful flowers they are today. And the dedication of the program booklet to John Ohl was a touch of genius.

It was a busy convention. We arrived just in time to unpack, get a quick lunch, and go to the Board meeting, which Bill Bledsoe called to order at 1:00 p.m. All but one Board member were present, and Judge Rogers and Alan Johnson, president of the Australian Iris Society, also were present. The Board meeting took most of the afternoon, but we did get to visit part of the RVP meeting, at which Betty Wood presided with parliamentary acumen, and with great skill drew out comments and suggestions and molded them into conclusions. It was a sterling example of democracy at work, with each member earnestly contributing to the group effort to find solutions to common problems.

The dinner that evening, hosted by the Wichita Iris Club for Board members and visiting dignitaries, was a welcome interlude in an otherwise busy day. The social hour gave all of us a chance to visit and to relax, and the dinner, with its delicious food, and the sparkling conversation of Clarke Cosgrove, Carol Ramsey and Ralph Stuart, was sheer delight.

In the meantime, in the headquarters hotel, the early comers were enjoying the coffee hour and a showing of slides.

Early the next morning, over a pre-breakfast cup of coffee, we had the rare opportunity of visiting with George Mace, Bob Schreiner and Bennett Jones, and the discussion of ways of breaking the climate in the growing of bearded irises was highly interesting especially to us with our experiences with Kay's garden near Houston.

The morning was almost completely taken with the meeting of RVPs, Section presidents, and Board members, at which the officers and committee chairmen gave their reports. But we did get in another Board meeting, and held the organization meeting of the AIS Foundation.

In the meantime, there were dynamic activities all over the place, so many that Irene, acting as roving reporter, could not cover all of them. After attending a pleasant morning coffee, graciously hosted by Mary Lou Bledsoe, she got a chance to see the exhibits on the registration desks. Impartial and universal in her tastes, so long as they are irises, she manfully tries to grow them all, even to the point I mutter about lot stretchers, and she was impressed with the Siberians RUBY WINE, SPARKLING ROSE, TEALWOOD, and SWANK, the spuria HIGHLINE LAVENDER, and the beautiful exhibit of California natives.

The Spuria Iris Show and Siberian Iris Display, in a room off the registration desk, was nothing short of phenomenal. It is high tribute to the long-lasting bloom of these irises to note that many of them had been cut a week before judging, and transported by car from California, a three-day trip, and yet they were perky not only for this show, but many were entered four days later in the Wichita show and won ribbons.

The rebloomer meeting was an interesting and informative one. Such exhibits as Jeffries 68-44 and DOUBLE MISSION showed the rapid improvement in the class. Wynnaline Stinson spoke interestingly on the culture of rebloomers in Texas, Bob Jeffries commented on the quality of MEMPHIS LASS as a parent, and the crowd was fascinated with Robert Paul Hubley's recital of four seasons of bloom and his recipe for getting ready for a show. The meeting concluded with a slide show of rebloomers, a really good collection of slides, and I noted that Irene had starred G. PERCY BROWN, GRAND BAROQUE, HAUNTING RHAPSODY, ILLINI REPEATER, JOLLY GOLIATH, LACE DUET, MANY MOONS, SOUTHERN SPY, SPRING GODDESS, VIOLET SUPREME, FALL PRIMROSE and CAYENNE CAPERS.

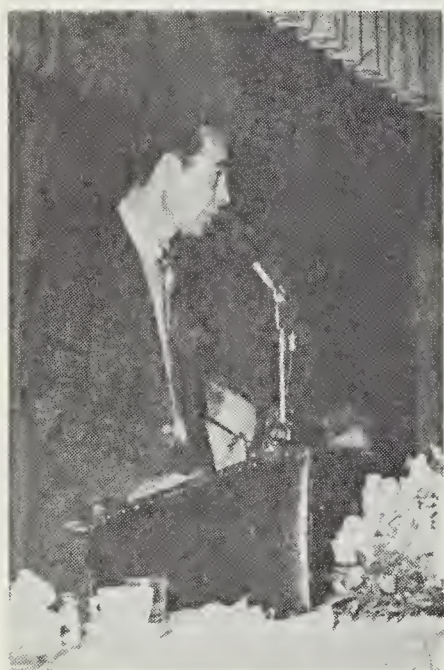
The spuria meeting also was interesting and informative. Bee Warburton was pressed in to do some judging on flowers that had been cut eight days before, and Bill Gunther and Marilyn Holloway spoke of the advancements that have been made from the species, and of the ideal which spuria breeders seek. Jim LeMaster made important contributions to this discussion. Sid DuBose, shy as he is, made some really important suggestions as to the characteristics which the modern-day spuria breeder seeks. Art Day's dwarf seedling was intriguing, and Ben Hager's ELIXIR won the coveted Queen of the Show Award. And we must not forget the important contribution which H. E. Briscoe made in making this a stimulating and educational meeting.

We also can report the Siberian irises meeting was interesting and informative. Based around flowers flown in by Melrose Gardens and slides furnished by Bob Schreiner, the meeting, chaired by Steve Varner, developed the qualities which Siberian iris breeders seek to achieve, and then showed the slides of leading Siberian irises. A number of interesting points were developed during the program. Of these, we select three of some unusual interest. 1. The award-winning TEALWOOD is from CAESAR'S BROTHER selfed. 2. I.

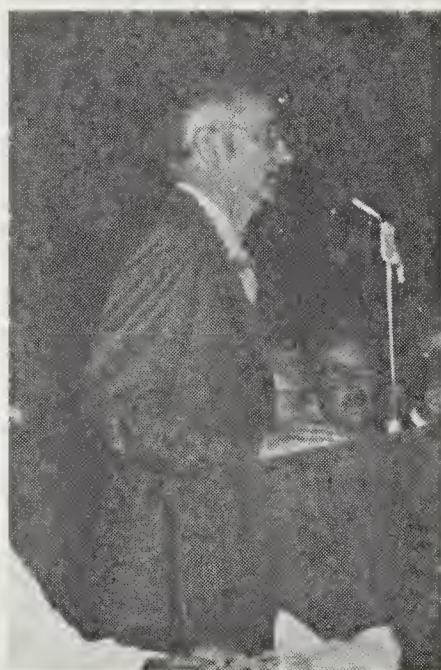
Forrestii is a base for getting yellow Siberians. 3. Dr. McGarvey told of his tying the clumps in compact bundles in the fall, and setting fire to them in the spring, to destroy pests and diseases. Which reminds us that the good professor's EGO is blooming in the garden as if it were home-based in Nebraska.

In the median meeting, Mildred Brizendine, with the wealth of expertise at her command, proceeded logically from point to point, as if from a structured brief, in clear and exact language, and enthralled her audience with the richness of her well selected information. Approval was instantaneous and universal, and we can say that if you want a program that scintillates, get Mildred. Her clear exposition of the differences in the median classes and the standards of judging answered many of the questions over which irisarians ponder.

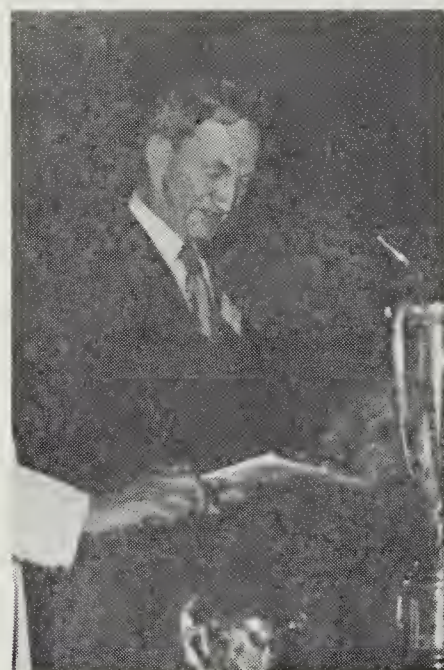
The dwarf iris meeting was another very good meeting. Irene said she was glad that she fought off the fatigue of late afternoon to attend, for the very fine slides shown by Alta Brown and the pertinent comments of Dorothy Willott and Earl Roberts made the meeting very worth while.



Felix Garcia, President Wichita Iris Club, Gives the Welcome.



Foster Allen, RVP 13, Issues Invitation to 1972 Convention.



Alan Johnson, President Australian Iris Society.

The Welcome Dinner that evening was a pleasant affair, and we were glad to have as a table companion Floyd Jones, who has done so much for irises in western Kansas. Bill Bledsoe announced that the new membership chairman is Glenn Corlew, and he paid particular tribute to Ann Dasch, Leda Christlieb and Perry Parrish for their work as committee chairmen.

We looked in for a moment on the Robin reception, and all of the Robin pen pals seemed to be enjoying meeting and visiting with each other.

Early the next morning we were off on the garden tours. Our first stop was at the John Ohl garden, where the iris beds stretch on and on. There were so many people in the guest iris patch that we started with the Ohl seedlings. We found some very good BB plicatas, a smooth peach BB, and an exciting color in another BB—a pale blue-violet that looked as if the color had been enameled on, and with a somewhat darker blue-violet beard and with a blue line extending down the center of the falls.

One always is a little apprehensive about writing about named irises on these tours, for the time is too short for careful study, people want to visit, and often one moves around a crowd gathered about a clump. Then, too, it seemed to be

impossible to see every iris in each garden. So these comments are written with these conditions as a background. We liked Mayberry 65-1-1, and in the brief minutes we had to look at the named irises in the guest bed at Ohl's, SAPPHIRE HILLS and MEGHAN made an impression on us. The dark red-violet with a white haft pattern, WINTRY NIGHT, was interesting, as was Schreiner A424-4, with violet standards blended with orange, and violet falls. But we had spent too much time with those fascinating BB seedlings in the patch out yonder, and did not get to see ten percent of the named irises and seedlings in the guest beds.



Conventioners



Tom Wilkes



Glenn Corlew and Sid DuBose

Our next stop was at the world famous Bartlett Arboretum, where one, as in the Ohl garden, could wish he had a full day to spend. A highly interesting feature was that long row of Dykes Medal winners, and one could see so plainly the vast improvements over the years. Among those we starred, perhaps because we want them for the home garden, perhaps because of some interesting feature,

were DAINY DOVE and BRIDE'S PEARLS, Guild 63-E-9, TOPAZ GEM, Blodgett 69-34, Wright B68-56, Sheaff 65-9A, ENCHANTED CLOUD, HEY LOOKY, LEMON TREE, WEST COAST, McWilliam 915-2, RASPBERRY RIPPLES, ERMINE ROBE and Saddoris 65-12, a pale orange with a fine branched stalk and beautiful shape and form.

There is something about a cookout that whets the appetite, and the noon meal, on tables amid the magnificent trees of the arboretum, was delicious indeed.

For the Harris garden our notes show an underscoring of "well grown," and they had thoughtfully provided sand paths in case of inclement weather. ON TARGET got plenty of stars, and WEST COAST was plenty good. Others that we starred were Brizendine B-68-44, Hamblen H64-16D, KENTUCKY HILLS, ARCTIC DAWN and VARNER 766. SAILOR'S SKIES was a nice white ground plicata marked violet, and ENCHANTED VIOLET and SILVER PEAK were putting on a show.

As we entered the garden of Fred and Ada Paulsen, we were greeted by an ore bucket. What a conversation piece! Everywhere one turned in the garden, he was faced with garden statuettes. The amazing thing is that the irises seemed to thrive equally well in sun or shade. CHIEF MOSES had a showstalk with outstanding branching, and such items as GREENSLEEVES, LIGHT FANTASTIC, EAGLE HARBOR, ANGEL LYRIC, Jones B42-1, Hamblen H64-1-60, Sexton 59-1965, HIGH SIERRA, BUFFY, SEANCE and WILD MUSTANG drew stars in the notes. The iris beds on the river banks were an interesting development, and the fishing signs showed a wag with an astute sense of humor.

The last garden for the day was that of George and Roberta Torrey. BLUE BONANZA towered above the crowd, and beckoned from every place in the garden, and Bellegamba's 2167, a big floriferous clump with sixteen flowers open, seemed to cry for a bed all its own for display. It was nice to see DOTTED



"Hurry Scurry"

SWISS again, and it looked pretty good, even by today's standards. NEWLY RICH and NELLIE CRAIG, an overlooked white, drew multiple stars, and among others we liked were SMALL WORLD, CAMBODIA, COLINA, EMINENCE, VELVET TOUCH, SIGNATURE, YANKEE BOY, FIFTY GRAND, FLAMINGO FLING, ROYAL EGYPTIAN, CROWNING TOUCH, HOUSE OF LORDS, ANGEL UNAWARES, PINK MAGIC, LITTLE SIR ECHO and AMIGO'S GUITAR.



In the Torrey Garden

The Judges Training School on "Ethics of Judging" was effectively done with Hugo Wall, Clarke Cosgrove, John Humphrey, Dave Niswonger and Betty Wood. While it may have raised as many questions as it solved, it was a stimulating session, and well attended.

The next morning, bright and early, we were on garden tours again, with the first stop with Jim and Lucy Fry. For some reason our bus was late, and I hardly had started looking at the interesting landscape development (Jim is an engineer) and looking at the median collection before the whistle blew. Well, that was it. I had not been aware that our time would be short, and had spent so much time looking at the interesting terrain and recalling what Jim had told me he planned in landscaping that I hardly had started to study CRYSTAL BAY, BEEBOP, DAINTY DOVE, BIT O' AFTON, CAROLINE ROSE, SHRINKING VIOLET, and the other interesting medians when the strident tones of that whistle blew.

Our second stop was with Orie and Ivy Jones. This rare and exciting garden deserves a full article by a writer who can spend plenty of time to study and write about all of the unusual features in this artfully landscaped garden, with its little gardens here and there, its historic house, the landscape features, the fossil and rock collections, the signs everywhere of people interested in and knowledgeable about many things—these deserve full treatment in a later Bulletin article. Among the irises, we starred Danielson F68-2, a VULCANIS X ESTHER FAY cross, Jones 918-2, Hoage's 66-21A, Ghio's 66-21A, FLUTTER OF PLEATS, AGE OF AQUARIUS, WANDERING WIND and NEWLY RICH.



Ivy and Orie Jones



Convention Chairman
George Torrey and
Transportation Chair-
man Ralph Potts



Helen and Bill Reynolds

For lunch we went to Historic Cowtown. The reconstruction of early Wichita, with its board walks, general store, old country printing plant, and the memorabilia of bygone days brought mists of nostalgia about the eyes of those who can remember these carefree, and now it seems golden, days of yesteryear. The lunch, served in the spirit of the times, was really delicious, and we were glad to have at our table Bill Frass, who grows and shows irises very well. And the garden of old time irises was laden with historical perspective.

For a long time we have heard Dr. Wall speak about communing with the irises, and when we saw those well-grown and vigorous clumps, we were about willing to concede that something like that must have happened. Dorothy Palmer's CAPTIVE CLOUD drew three stars for its beautiful flower with a wide haft, and among the many others that drew stars were PHOEBUS APOLLO, EMINENCE, RED PRELUDE, TINSEL TOWN, ODYSSEY, MAESTRO PUCCINI, SPARKLING SUNRISE, ROYALAIRE, LADY OF LOUDOUN, Flanagan 64060-2, ELOQUENT, GARDEN'S END, ERMINE ROBE, BUBBLING CHAMPAGNE. As we stood and looked at the flowers, three thoughts came to our mind. 1. That Glenn Corlew's deep and innate understanding of the beauty of art form shows up in his selections of irises. No word describes his CHERUB CHOIR but beautiful in italics. 2. That Larry Gaulter is developing a strain of tall, well-branched stems, with large flowers, wide of haft. 3. NEWLY RICH stole the show, with its numerous flowers on a superbly branched stalk done in a full but pleasing yellow.



SOMETHING SERIOUS. Lavonne
Ney, Ethal Baukus, Audrey Machulak



Watson Park "Honorary Mayor" Tom
Freidline



Lucy and Jim Fry



Dr. Hugo and Dora Wall



Charlotte and Gus
Sindt

In the garden of Charles and Mabel Jendel, one noted at once the carefully groomed paths and edges, and the long row of oncos. Those irises which were putting on a show (and this garden was not yet at peak) were MARIACHI, MUSIC MAKER, CIBOLA, BALLYHOO, ROUND DANCE, DAY'S END, COUNTY FAIR, CHAPEAU, WESTERN HOST and MOON RIVER. Charles was looking hale again, after his hospital bout, and Mabel Clare was as dynamic as ever.

The last stop for the day was at Richard and Carol Ramsey's perfectly manicured garden. Carol is of median fame, and it was to be expected that there would be good medians—those that caught our attention were BRIDE'S PEARLS, ANNIKINS, OLIVE COCKTAIL, GIRL GUIDE, SPUTNIK, OLYMPIC KATE, MINI SAPPHIRE, DEBBIE ANN, Jeffries J66-15A, LITTLE LYNN and CRYSTAL BAY. Among the taller ones, CINNAMON TART, WOODLAND SHADOWS, PROUD SALUTE, HOLIDAY TIME, MAGIC CASTLE, MILESTONE and LAVENDER SAILS were putting on a classic show.

That evening we were entertained with the Jay Hunter Indian Dancers, a program artistically and interestingly done. At one stage the dancers chose members of the audience as partners, and those chosen certainly mastered the beat and the rhythm of Indian music in record time.

Later Friday evening, there were two programs, so we split forces to cover both. I attended the Regional Test Garden session. Bob Minnick has done sterling work in this department, and he carefully went over the rules to get suggestions from the RVPs assembled for suggestions. There were a number of ideas battled back and forth, and while most of these per se may not work into the program, there seemed to be emerging from these suggestions an idea that might grow into a phase that could provide an even more useful program. Bob deserves the plaudits of the Society for his unassuming but solid contributions to Regional Test Gardens.

Kay and Irene attended the Aril Society International program, and they reported back that it was a truly marvelous program. Herbert McKusick, Ernest Wilson and Virginia Ross teamed up, and with the aid of slides shown by Virginia Ross, covered the panorama of types of arils and arilbreds and the desirable characteristics of each in such clear fashion that Irene reported the ideas were sharply etched in her mind. The slides, ranging from pictures of the arils taken in their local habitat of Beirut and other far-Eastern places to



“Lots of Flags”

pictures of typical oncocylus and regelia irises, and many of the better known of the hybrid forms, half and three-quarter, were a marvelous teaching aid, and skillfully used. Here is another program for you who seek something that sparkles.

Our first stop Saturday morning was at Watson Park. Reconstructed from wasteland, it had been made into a quite beautiful area, and had all of the requirements needed for development into one of the beauty spots of Kansas.



“More Flags”



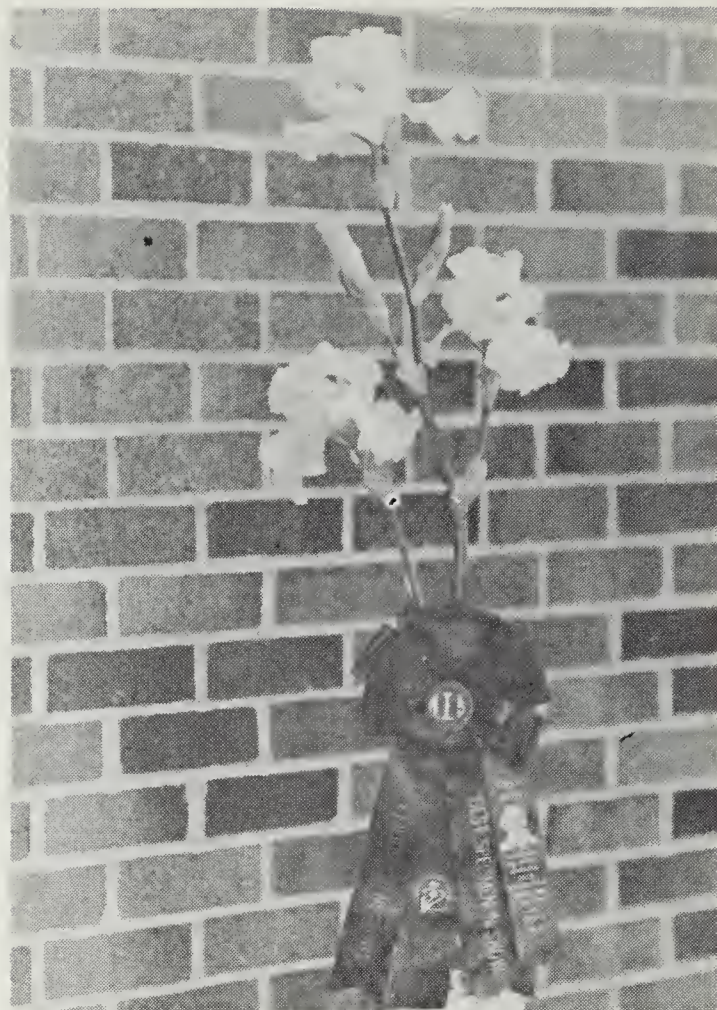
Watson Park

The irises were laid out in eight beds, and there was an enormous number of irises to look at. With somewhat more time, the study was more careful, and there were a number which attracted our attention: CARO NOME, Brown 64-78-3, HEY LOOKY, CHIEF SEALTH, MERRY AIRE, CELESTIAL FIRE, JILEEN, RASPBERRY RIPPLES, SAPPHIRE FUZZ, Olson 63-29A (a full yellow with a white blaze, which we gave four stars), CAPTIVE CLOUD, GAY CHARMER, BLUSHING BLONDE, BIG LEAGUE, Blodgett 69-39, Burger D-21, DEAR DOLLIE, BURNING DESIRE (starred plenty), ARCTIC DAWN, ETERNAL JOY, PATTI PAGE, SUNSET SHADOWS, Dyer D-6-69, FIFTY GRAND, KENTUCKY HILLS, ANGEL'S ART (with four branches), BRIGHT BUTTERFLY (multiple starred), POWER AND GLORY (multiple starred), ARCTIC ANGEL, GUITAR COUNTRY, Palmer 3666B, Palmer 1286C, and Palmer 362A (multiple starred), HAMMERED GOLD (very good), MOLTEN EMBERS, POLYNESIAN SUNSET, AZURE FLUTE, VARNER 884, Wills 54-67, Wills 53-68, MAY ROMANCE (multiple starred), CHANETTA, RASPBERRY FRILLS, CHEROKEE PRINCESS, DUTCH CHOCOLATE, SNOWLINE, REGALAIRE, BUTTERSCOTCH PLUM, CAPTAIN JACK, LADY BARRINGTON, Jeffries J67-11B, ELIZABETH STUART (multiple starred; a pale violet with just enough orange infusion to make it different and distinctive), Niswonger 40-68, SADDLE SHOES, Schreiner Y906-3 (multiple starred), IVORY GOWN, GLENZULA, ORANGE RIOT. Most of the median bloom was past, or in the late stages, as was true of the arilbreds, although there were several still in bloom, and RARE SPICE caught our eye.

One that we looked for particularly all through the garden tours was Schliefer's ANGEL CHOIR. We wanted to see if by comparison it was the great flower we remembered in its home garden. Finally at Watson Park, there was a single flower, beautifully formed and ruffled, and with the substance to take the wind that was coming over the water.



"Say Cheese"



WINTER OLYMPICS, Queen of the Wichita Show, Shown by Eloise Woodman



The Queen's Table at the Wichita Show.

IRIS-SHAPED PEPPERONI PIZZA, tacos, coke, chocolate fudge cake, toll house cookies and Rice Crispy Treats grab ya? Oh yes, there was popcorn served just before they ate. Burp!! You should have seen Ann's living room after the big bust was over—cheese, pizza, popcorn, everything all over the place. And Ann couldn't have been happier! Declared it was the biggest success to date! And you know something? It was! The kids had a ball and just can't wait for spring to come so they can get out and HYBRIDIZE.'

"A long quote, but wanted to be sure you knew some of the 'inside action' that our new YOUTH director is initiating. Imagine what would happen if every local chapter had a chairman like her!! (Oh no, it's too much thinking about it. It just might cause AIS to become a youth-oriented, Aquarius-like mob, with its members lining the street . . . one demanding an end be put to plicatas and another advocating the overthrow of line breeding!)

"Nuff said. I can hardly believe that anyone could be so magnetic with kids, as Ann is. You chose one gem-uv-a committee chairman . . . and I am so delighted with her plans. When time comes for the Wichita convention, Region 4 may have the convention hotel filled with youngsters!"

Cheerfully,
Phil"

FROM The EDITOR'S DESK

After checking over the copy for THE HANDBOOK FOR AMERICAN IRIS SOCIETY MEMBERS AND OFFICERS (what a monumental job Ira and Betty Woods did on it), delivering it to the printer, and going over the "specs" with him, we left on April 10 to meet a schedule of iris activities in the South.

We stopped in Wichita the first night, where we checked the final copy for the Guest Irises and the President's Cup ballots with Bill Brown and Roberta Torrey. We really were greatly impressed with their work as we checked in the basement office of Bill Brown, where all guest irises were received, unpackaged, recorded and allotted to the guest gardens.

The files were in apple pie order, and with the process of recording guest irises both with the guest iris chairman and the awards chairman, and the constant correspondence between these two offices, there seems to be little chance of error.

A special treat was a flashlight survey of Bill's garden, where GRANDMA'S HAT and one of Bill's MDB seedlings really sent out a blazing profusion of color.

The George and Roberta Torrey garden is beautifully landscaped in a perfection of scale that is hard to achieve and maintain. The guest irises looked very good. Since we were overnight guests of George and Roberta, we had the very special treat of being able to study closely Roberta's collection of antique china, glass spoon holders, carnival glass, and even dolls. This exquisite display shows a very fine collector's discerning knowledge of value. The display baffles adequate description in a few words—it is superb.

George and Roberta overwhelmed us with their time and attention, and on Easter morning led us over unfamiliar streets to the highway south, where we were off for Copperas Cove. In Texas we found bloom sparse, and the iris shows we planned to see had been cancelled. We assumed that the drought was the cause, but we were assured that the irises could take the dry weather—that the cause had been an unseasonably mild spell, followed by hard freezes. In the



President Bledsoe Presents the Hybridizers Medal to Mildred and Roy Brizendine.



Carol Ramsey Presents the Franklin Cook Cup to Steve Varner for NEWLY RICH



Dave Niswonger with the Presidents Cup for RASPBERRY RIPPLES

The final garden tour was the El Dorado Gardens, where the traffic signs and the garden signs were unique. The discussions with Helen Reynolds, Henry Sass and Bill McGarvey were stimulating and interesting, and we spent a lot of time in the unusual median collection which Helen has, and starred her GIRL GUIDE and BOY SCOUT. Among the TBs, PAWNEE PRIDE got four stars, and others that drew multiple stars were STRANGE MAGIC, Schreiner A-7-C and Varner 669. BALKAN GLACIER was an interesting flower, as was Babson R 65-14. Among others we liked were SADA VAUGHN, SIGNATURE, TOWN AND COUNTRY, LAZY RIVER, SUPREME BLISS, SECRET PAL and DAY'S END.

And thus the garden tours were over, with the wish that it were possible to return to all of these gardens and unhurriedly and carefully evaluate the many beautiful irises Wichita showed us. But time does not stand still, so we returned to the hotel for lunch, where we had the opportunity for the first time to really visit with Ralph Stuart.

I was tied up in meetings for the afternoon, so Irene and Kay covered the show. Wichita always sponsors magnificent iris shows, and the miracle is that with this convention they still had a magnificent show. There was a

tremendous number of exhibits, and the hall was full with visitors all afternoon. Eloise Woodman won Queen of Show with a stalk of WINTER OLYMPICS, and when we saw her garden the next day, there still were two or three showstalks in the clump. The show was a brilliant next-to-closing note for the convention, and it was thoroughly enjoyed by both the visiting irisarians and the general public.

That night the traditional banquet was held, and the awards of the year. One thing always will be etched in my memory—the tears streaming down Mildred Brizendine's cheeks as she and Roy went up to get the Hybridizers Medal from the hands of President Bledsoe. The banquet closed as all good banquets ought to close—with a gifted speaker whose humor in making his serious points brought side splitting laughs and melted away the tiredness of a rigorous convention.

As one mingled in the crowd in the lobby and registration and exhibit halls and rooms, it was so very evident that there was an air of deep satisfaction with the whole program, a "We're glad we came!" attitude. Goodbys were said reluctantly, but soon Wichita 1971 was over.

Wichita, we salute you. You made our visit to your city and your gardens a very wonderful experience that we will cherish in our hearts forever.

DEVELOPMENT OF MEDIAN IRISES

By Zula A. Hanson

In the midst of the frantic activity at the Wichita convention, there were rare moments when it was possible to just sit and contemplate. Since our interests run strongly to the medians, our favorite spot for sitting and contemplating was across from an exhibit captioned "Development of the Median Irises," sponsored by the Median Iris Society and executed by Jean Witt. The original display appeared in Milwaukee in 1969, and was updated for New York in 1970 and Wichita in 1971.

Presumably every irisarian knows what constitutes a median, but to refresh some possible lapses of memory the term embraces everything between the miniature dwarf and the tall bearded. It includes standard dwarf, intermediate, border, and miniature tall bearded. In several panels of beautiful colored pictures, this display illustrated the development of the delightful iris group that bridges the gap between the earliest spring flowers and the magnificent display of the stately tall.

The display consisted of several panels. The left one was labeled "These Are Ancestors." It included pictures of a blue *Iris pumila*, *I. pumila* CARPATHIA (grown from collected seed), *I. mellita*, *I. reichenbachii* (yellow), *I. aphylla* Austrian, *I. cengialti*, *I. variegata*, and finally a picture of a big field of tetraploid tall bearded. All of these species and hybrids, through crossing and recrossing, have resulted in the sophisticated assortment of medians we have available today. From an early blooming miniature to a late blooming tall seems a far cry, and yet from many of these improbable crosses our medians have evolved.

The second panel was labeled "These Are Milestones." It opened with BLACK FOREST (Schreiner '44), a BB derived from *aphylla* parentage and a classic in borders. It was followed by WIDGET, MTB, (Williamson '43);



ELIXIR, a Hager original, exhibited by the Cordon Bleu Farms of San Marcos, California, was selected as Queen of the Spuria Show at the Convention Wichita '71.



As it greeted registrants, a large container of the spuria cultivar, HIGHLINE LAVENDER, won many favorable comments for its hybridizer Eleanor McCown.



This stalk of Walker Ferguson's golden seedling No. 69-5 was selected as Best Seedling at the Wichita Spuria Show. The previous week this same seedling won the President's Cup of Region 15. There are plans to register it as "40 Carats".

A combination of many factors made this show "one for the books": (1) All but one of the entries had traveled nearly 1,500 miles and reached the show tables in relatively good condition. Some arrived by plane packed in florist boxes, but the majority of the exhibited specimens had arrived by car after a three-day journey—of course they could have made a more rapid trip if they had not stopped enroute to view the Grand Canyon and do some shopping at Indian trading posts. (2) Some of these travelers left their home roots *one full week* before the judging, and all which arrived via auto had been cut five days before the judging (with perhaps the one exception which only had to drive 175 miles). (3) None of the judges were from the Region in which the show took place, as is equally true with the entries. The panel consisted of AIS Judges from Massachusetts, Illinois, and California. (4) Twenty-five of the more enduring entries from this show went one step beyond what is usually expected: they entered the Wichita Area Iris Show which was held four days later, and many of them won ribbons there too.

Spurias have led the way; Speciality Shows sponsored by other Sections may become added attractions during future national conventions.

FUTURE CONVENTIONS

1972—Salem, Oregon

1974—Akron, Ohio

1973—Philadelphia, Pennsylvania

1975—Southern California

The Finis

Mabel Clare Jendel

The 1971 American Iris Society Convention is over! We are all dead tired but exultantly happy. We feel that it was a truly successful convention measured by the wonderful words of praise from our guests. We ended our convention with a feeling of satisfaction of a job well done. The committees meshed all their efforts and the results were way beyond expectations. All the chairmen of the committees were shaking hands and praising each other. No hard feelings after a long hard five-year program, no fences to mend and no "wish I had"s. Even the weather man cooperated and in his gracious generosity gave us sunshine and cool weather. We were proud to show our gardens and welcome the guests and hybridizers to see our devotion to the beautiful introductions. The sad part will be to give up these gorgeous flowers when it is time to return them to their homes to be cataloged and sold. Our only recompense will be in knowing they are going to foster homes of love, and will grace many gardens with their beauty.



One of the most outstanding events of the gathering was the sentimental meetings of old convention friends and buddies. The memories and reminiscences between dear iris friends add to the delight and enjoyment of every iris convention.

We thank all the irisarians who came from all over the world, including Africa, Canada and Australia, to share with us this wonderful time for the Wichita Area Iris Club. It was one of the most gracious and appreciative groups we have ever been a part of and we hope the acquaintances we have made will develop into future great friendships, cemented by their love for the lovely flower—the iris. We will look forward to meeting them again in Oregon in 1972.

Our Convention '71 is not over as long as the "memories linger on".



Schortman Insignia

The interesting trademark or insignia developed by Bill Schortman as the mark of Schortman irises.

The Tall Bearded Iris and Its Future

By C. C. Hall

(Reprinted from *The Iris Year Book*, 1970, BIS, pp 45-52)

WHAT I have tried to do in this article is to consider the present stage of development and the possible future development (or rather the *desirable* future development) of the tall bearded iris in terms of the various qualities or attributes that one considers when judging an iris as a garden plant. I think there are eight such attributes to be considered:—

1. The colour of the flower.
2. The form and substance of the flower.
3. The stem, its branching, height and strength (i.e. resistance to wind).
4. The number of flowers per stem (“bud count”).
5. The season and duration of the blooming period.
6. Freedom and regularity of blooming, i.e. the number of spikes per clump and performance year-by-year.
7. Vigour of growth (rate of increase).
8. Health (resistance to disease).

Some of these factors, such as the colour and form of the flower, are almost entirely a characteristic of the particular cultivar and are independent of climate and cultivation conditions. Others are very sensitive to growing conditions. Thus, bud count and stem qualities, although primarily controlled by breeding, do tend to vary somewhat from year to year and from garden to garden, and although one can breed for floriferousness, vigour of growth and resistance to disease, one only has to compare these attributes for a whole range of iris cultivars, for example, in Florence and in England, in California and in England, and, perhaps, in Kew and in less favourable localities in England, to realise the tremendous effect of climate (and to some extent soil) on these important qualities.

Now let us consider each of these eight factors, qualities or attributes in turn.

The Colour of the Flower

Dealing with “selfs” first, I personally can’t see much scope for improvement in white selfs, or whites with red beards or yellow beards (on the basis of colour alone), but there certainly is scope for whites with beards of other colours. I gather from the *AIS Bulletins* that blue-bearded whites have been produced, but I have not yet seen one where the blue did not diffuse from the beard into the petals giving the effect of a “blue-hearted” white rather than a well-defined blue-bearded white.

Although stem and bud-count need improvement, I also consider that we can expect little colour advance in yellow selfs. Orange selfs have developed rapidly in recent years and we are very close to the deep, glowing colour of the ripe fruit. There is a range of attractive blue-blacks and crimson-blacks, probably as close to “true black” as is likely or, in my personal view, as is desirable.

Flamingo pinks, apricot pinks and fuchsia or raspberry pinks we have in plenty, but there has been little progress in recent years towards the production of a “solid” mid-pink resembling the rose ‘Queen Elizabeth’. I have seen a greater depth of pink colour in smaller flowered “Border”, or as we term them,

“Intermediate bearded” irises, almost as though the paler colour of the larger-flowered talls (from which they were derived) had become concentrated by reduction in size.

Pure “spectrum blue” still eludes us, and I have not seen much progress towards it in recent years. Although much better flowers and stems have been produced, I doubt whether there has been any pale blue closer to the real thing than ‘Derwentwater’. Dr. Peter Werckmeister has stated (*AIS Bulletin* 194) that the anthocyanin delphinidin, which is responsible for the blue colour in flowers, is present in the modern TB iris, but the trouble is that the main sap colouring matter in iris is a purple anthocyanin, which introduces a reddish note into the colour of the flower. (This is very evident in most colour photos of “blue” irises). Further line breeding should result in purer blues and of course there is always the chance mutation which could modify the structure of the anthocyanin in the flower. Apparently, the anthocyanins in wild plants are more complicated, chemically, than delphinidin (responsible for true blue) and cyanidin and pelargonidin (responsible for true red) present in many garden hybrid plants, and mutations tend to lead to the formation of the simpler chemical structures.

There is now a range of mid- to deep-blues closer to the true colour than was the case some ten years ago, and on the other hand, by deliberately enhancing the red element, a series of vivid and “glowing” violets and purples has appeared.

Although we have many attractive lavenders and lilacs with tangerine and red beards (in the ‘Rippling Waters’ family) we still have not seen a good blue with such a beard, but I think it will come and it could be most attractive.

Then, of course, there is the elusive true red self! The present brownish or purplish reds result from a combination of the purple anthocyanin with the yellow carotinoid pigment granules responsible for the colour of yellow irises, and American breeders believe that by close and careful in-breeding among the present reds it should be possible to get a much better blend of these two colour factors to yield something very close to true red. The anthocyanins responsible for the true red in other plants (cyanidin and pelargonidin) are not present in iris, but being chemically similar to, but simpler than the purple anthocyanins in the iris, one may legitimately hope for a mutation that will yield them.

Finally, let us consider plicatas, amoenas, bicolours and blends together as a group. In my opinion this is the group which has the greatest potential for further development, and is a particularly suitable one for beginners in hybridizing to work with. Possibly there is rather more restricted scope in plicatas and it is going to be difficult to compete with Mr. Gibson and Mr. Schreiner in the U.S.A., but to my mind there is an essential difference between this entire group of “multi-coloured” irises and the selfs, which enables the tyro to compete with the expert. This is that a multi-coloured iris cannot be “planned”, and in fact it defies description because the appeal of the flower depends on a particular combination of shades and tints, the exact way in which one colour is brushed or stippled or flecked on to a base colour, or washed over and blended into a complementary or contrasting colour. Two iris blends, bicolours or plicatas could be given identical descriptions (or R.H.S. Colour Codings) and yet one could be a delight to the eye and the other uninteresting, or even downright horrible! Thus, although one can work for plicatas by using plicata parents or irises containing the pl. gene in their make-up, and work for amoenas by using a ‘Progenitor’ derivative containing the inhibitor for anthocyanin in the standards, one cannot plan to get a pleasing result—one can

only hope (and this reduces the expert to our level!)

Most hints to beginners in hybridizing suggest starting by crossing like-with-like (two blues, two pinks, two plicatas etc.) but I would suggest choosing two irises of perfect flower form, stem, etc., but contrasting colour or type. One will certainly get some interesting and unusual progeny; some may be "horrors", but there is a good chance of getting a really delightful bicolour or blend.

In 1965, I crossed ROCOCO with RIBBON ROUND and obtained exactly what one would have predicted—a row of blue-on-white plicatas, none showing any advance on existing cultivars. But when in the previous year I crossed an EMMA COOK seedling with white standards and lavender-mauve falls with ROYAL OAK, I got a most interesting row of seedlings, among which was the blend TANGLEWOOD, and a near amoena with old gold standards and mauve-violet washed falls with an old gold edging that received an S.C. last year and was registered as MOON LANDING.

To sum up, although I have no doubt that steady progress will be made in self-colours, and that careful line-breeding will produce contrasting beards on selfs and particular types of plicatas, amoenas and other bicolours, the widest open field for development is that of the blends and bicolours.

Flower form and substance

I think we would all agree that we have reached (if not exceeded!) the maximum desirable size of flower. (The blooms of ROYAL TOUCH on my first year plant last year were 7ins across). Breadth of fall is desirable but has been adequately achieved in all the established colour patterns. One can have as much or as little ruffling or lacing as one wants in most types, although I have not yet seen a good ruffled red. Closed standards and flaring or semiflaring falls (which are preferable on tall irises) are now common, and with most colour patterns petals are of adequate substance and weather resistance, although sun "burning" and rain-marking of petals still occurs with some colours.

The main problem with this factor is to breed the desirable flower characteristics into the new colour breaks, as they arise.

The Stem

I consider that no TB iris should be taller than 36-40ins and that, except in very exposed gardens, the stems should not require staking. Irises which "spread-eagle" in the Florence trials lose so many marks for this failing that however attractive they are in colour, form, etc., they cannot appear in the top 10 and receive an HM. This may be a little harsh and clearly one must take account of the season and the weather, and not condemn an iris on the grounds of weak or excessively tall stems, on the basis of its performance in a single year or, indeed, in a single garden.

Branching is adequate in all the "standard" colour patterns, but frequently requires improvement in new ones. It is often poor in 1-year seedlings, and improves in later years.

Number of Flowers per spike (or "Bud Count")

A disconcerting number of recent introductions have only 4 or 5 buds per stem instead of the normal 7 to 9 (sometimes more). To be critical of low bud-count is not just a "fetish"; unless the flowers are very long lasting (which is the case with some bud-deficient cultivars), a low bud-count means, in most cases, a very short period of bloom. In an average season, a variety with 9 buds

per stem can be in flower for three to four weeks, if there is a clump with three or more spikes.

Since one of the important developments needed to increase the appeal of the TB iris as a garden plant is an extension of the flowering season, we really *must* breed cultivars with the maximum possible number of buds per stem.

Season and Duration of Blooming Period

Apart from the number of buds per stem, the duration of blooming of a particular cultivar is, of course, controlled by weather. We have had a very good example of this in 1970 where the unusually hot and sunny weather in late May and early June greatly shortened the length of the blooming period. The duration of the TB iris season as a whole, however, is controlled mainly by the distribution of "early", "mid-season" and "late" varieties. If this distribution was fairly uniform, the blooming season could extend at least six weeks in any one locality.

In fact, the great majority of "modern" TB irises are mid-season in blooming, and the period over which a planting makes a really attractive show is limited to about three weeks. At the end of May, there is an odd bloom here and there among the forest of buds and at the end of June, a sprinkling of blooms almost hidden by dead stems. The few early varieties are indeed welcome as the harbingers of the feast to come, but I find that the odd late variety is almost a nuisance, flowering in lonely state when the rest of the planting is crying out for the annual clean-up, division and re-planting. One would not feel this way, however, if about a third of the irises in general cultivation were late bloomers. This concentration of mid-season varieties is, I believe, a direct result of our Show and Judging system, which is "selective" for such varieties. A seedling which normally flowers in late May or in early June, never gets to our Show to be judged and seen by the public. It could, of course, be judged at Chelsea or at a Fortnightly Show, but if its sole distinction (compared with cultivars already in commerce) was its earliness or lateness, I very much doubt whether it would receive an S.C. (the encouragement most hybridizers require before registering a new seedling). This is, I believe, because we are not sufficiently conscious of the desirability of having a much greater number of early and late varieties, whereby to extend the season, and thus increase the value of the TB iris as a garden plant.

Freedom and Regularity of Blooming

I have specified here two separate qualities, but they may well be associated—the number of spikes per clump (if you like, the "generosity" of a plant with its bloom)—and whether or not a cultivar blooms regularly each year. What one hopes for is that every fully developed rhizome, carrying a main fan (and usually two daughter fans) will produce a spike, and do so each year. Obviously, the fact that this does not happen in England is partly climatological, but it is also varietal. Some varieties will flower every year in England despite cool, dull weather in the preceeding summer, and produce a spike from nearly every developed rhizome; others will sulk for three or more years without any bloom.

I realise that there is always a tendency to look at the past through rose-coloured spectacles ("the good old days"), but most of our members are firmly of the opinion that the pre-1940 TB irises were more profuse and regular bloomers than our modern ones, and photographs taken at Wisley and in other gardens over 30 years ago support this view. The modern American-raised iris is obviously much more sensitive to lack of sunshine and cool, damp conditions

than the older ones were, and our only recourse is to try to breed irises of the modern type that will flower regularly and profusely under British conditions. If the gardening public buys a new rose, dahlia, chrysanthemum, or nearly any popular herbaceous plant or bulb, it will certainly flower in its first season, and we are not going to persuade people to pay 10/- for a TB iris rhizome in, say, July 1970, and have to wait until June 1972 to see it flower.

Vigour of Growth (Increase)

If the TB iris is to be accepted as a good garden plant, it must develop from a single rhizome into a clump with 3 to 5 spikes in two years growth, under conditions of good general cultivation. (Since this is not an article on cultivation, I will not go into details of what is meant by "good cultivation", nor into the problems of soil exhaustion or iris sickness of the soil, experienced by those who grow irises intensively). But there is no doubt that many modern TB irises do not meet this requirement and need patience and special treatment to get them to grow and increase satisfactorily.

When one is hybridizing, the "poor doers" are easily spotted in the seedling rows at the end of one year's growth and should be eliminated at this stage, and thus avoid the introduction of weak growers. The great difficulty is, however, that irises that grow vigorously in the raiser's garden often refuse to do so in other gardens, and it would be necessary for hybridizers to subject their selected seedlings to trial in a number of test gardens before registering them. Under our new rules, an iris will not be able to receive the Award of Garden Commendation or the Dykes Medal unless it has been shown to perform well in a number of different localities.

Resistance to Disease

Tall bearded irises can suffer from four diseases, viz., rot of various types, scorch, leaf spot and virus. To my mind, by far the most serious of these and the only one likely to restrict the development of the TB iris and its popularity as a garden plant, is rot. I am not so much concerned about "wet" or "dry" rot of the rhizome, but basal "stem" or "fan" rot, which can cause the loss of the sole flowering fan on a one-year old plant, and the entire loss of a 6-month old seedling. With an established plant, one can check the spread of rhizome rot by the use of strong antiseptics, but with newly acquired single rhizomes, one can lose the entire plant or at least, the first season's spike, if it is not spotted in the very early stages.

Having done all we can to check the onset of rot by planting in suitable sites and by good cultivation, we must try to breed rot-resistant cultivars. At first sight this is fairly easy, since in my own case, I have had such serious losses of 6-month old seedlings that those that do survive to flower, one feels must be fairly rot-resistant! Furthermore, most hybridizers grow seedlings that show promise in some quantity, and therefore have a good opportunity of judging their resistance to disease. But, as we have observed for other factors, one cannot, unfortunately, argue from performance in one garden only. Thus, irises that never suffer in my rot-ridden garden, regularly succumb in other gardens, and vice versa.

Scorch is not, I think, a serious problem, although in my experience, more prevalent this year than in recent years. Certainly we are not anywhere near the stage of needing to breed scorch-resistant clones.

Leaf spot is a nuisance, particularly in some seasons, but can be controlled

by preventative action with fungicides, if one can find the time to do it!

So far, nobody has produced a scrap of evidence that virus disease has any detectable effect on rhizomatous irises other than the rather unsightly chlorosis of the leaves, and the only reasonable method of control is to limit its spread by dealing with the aphid that transmits the virus.

In fact, were it not for rhizome and fan rot, one could regard the TB iris as remarkably free from disease and, for that matter, from pests. So we really must try to breed resistance to rot into our modern irises, otherwise we shall be growing them in special composts and frames like the oncos!

To sum up, I consider that in new flower colours, the bicolours, blends and other colour combinations offer the greatest scope for further development. I feel that we must aim for stems of medium height (and flowers of medium size) that are wind-resistant; that we must not introduce plants that carry less than, say, six buds per stem; that we should try to extend the TB season by breeding more early- and late-flowering cultivars, and to develop an "appraisal" system that will encourage such breeding; that we must aim, in our breeding, to select strains that will flower freely and regularly in our climate and that are resistant to rot. I fear that unless substantial progress is made towards achieving these aims, it is unlikely that the tall-bearded iris will ever become a widely-grown garden plant.

SPURIAS Do You Have a Problem?

Ila Crawford

How to grow a plant, any plant, or how to treat a diseased one; how to water or when to fertilize, is as controversial as politics. Despite all this "conflab" we stick our necks out and try to give the best knowledge we have (from experience) about a specific problem.

For the most part, spurias are disease-resistant and one's success depends on a few simple rules. Like other rhizomatous irises, they should be given shallow planting, covering the rhizome with an inch of soil. Since they can remain in one spot for many years, they should be planted two to three feet apart—depending on space. Sunshine and air circulation are important toward prevention of rhizome rot (mustard seed fungus). Good drainage is a must. Plant in full sun with a good loamy soil. They will grow in almost any soil, but care in soil preparation will pay dividends. September is the best time for planting, and never let the rhizome be subject to drying out in the bag. Keep the newly set spurias moist until established. Just moist, not flooded.

The mystery is that old established clumps seldom succumb to rhizome rot. One's concern should be with the new plant just set or reset. Once the cultivar is established your worries should be over. Terraclor, at the recommended rate, worked into the soil before planting, will inhibit the growth of the fungus disease known as *sclerotium*. One method is to make a solution at the recommended amount and drench the plants soon after setting.

It would be wise if AIS would arrange a seminar on plant disease as carefully as we prepare a judging seminar. We might have the information from the "horse's mouth" and not depend on friend-to-friend helpful hints. Until that time, I shall be glad to give you my tips on growing spuria irises.

What's New In Collecting?

Aleta Eggle

All our members are supposed to love Iris with heart, mind, body, and soul. And for some it's been a life long affair.

But when you walk into their homes, you'd think their affair was with Rose, Daisy or maybe Tulip. You can't find even a picture of Iris hanging on the walls.

Well, I want to be remembered as the person who changed all that. I want to interest you in new things if you can't find antiques. You people who love Iris can have your whole house decorated in Iris. Since some of the materials are multifloral, nobody but you will notice that she is in every room. Let's take "Iris" in out of the cold and give her a place of honor in the house.

At the present time there are four Iris wallpapers, two with matching drapery material. So that takes care of four rooms of your home.



Albert Van Luit & Co. of Los Angeles makes mural wallpaper; the Iris scene is for only one side of the room. The other three sides are only plain color. This mural has been pictured as suitable for living room, dining room, bedroom, and even the bathroom. However, I don't think wallpaper is a good idea in a bathroom, too much moisture for it to last very long.

Schumacher's of New York is showing wallpaper by DuPont with matching Waverly drapery material showing Iris with some other flower. Franciscan Fabric, Inc., shows Iris material and says wallpaper to match.

House Beautiful in the April issue shows Iris wallpaper on page 92. Looks

more like dwarf iris than tall bearded.

Nettlecreek bed spreads feature an all Iris bedspread with material for draperies available. The Dunlap chain store had a multifloral bedspread with Iris; same was also in Macy stores.

The Herrschner Co., Steven Point, Wis., is now featuring an applique Iris quilt that can be used for a bedspread by attaching a dust ruffle to the bed. The Rainbow Block Co. shows two ready cut Iris blocks to make quilts out of. The Stearn Co. has available two Iris patterns if you want to start from scratch.

For the living room any of those available wallpapers are suitable. There are three ideas for a coffee table, Nancy Crist and husband made a tile top table, design: Iris, of course, and it was published with directions in the Medianite, Volume 6, No. 1, January 1965; or you can get a plain glass top table, and with an etching kit etch Iris on it, or a plain wood table and a wood burning kit and make a burnt wood top table.

Then there is a kit that will make a Tiffany type lamp shade with Iris. There are two places to buy hooked rug patterns, either one of which you can use for a pattern for the table tops. There are kits for needlepoint that can make a sofa pillow, or hang on the wall.

For the dining room, Lee Wards is now offering a table cloth to embroider. From The Spinning Wheel shop in our town you can order a table cloth imported from Denmark, with a wide strip down the middle with multicolor Iris to be worked from a chart as all Danish embroidery is. And for 10c and a stamped envelope I can send you a Xerox copy of directions for a very beautiful Iris crocheted table cloth, booklet no longer available.

One antique collector hangs his fancy China plates on the dining room wall, but the cheaper pottery type he hangs in the kitchen. You can Artex some cafe curtains for the kitchen.

For the bathroom, if you have an old-time bath tub sitting on legs (an antique now), just stencil some Iris on it. Or if new and modern with glass doors, buy plain glass doors and etch on some Iris. You might just as well have Iris as swans or fish. Over the years there have been quite a few bath towels with Iris, but at the moment I don't know of any available. Of course, the fleur-de-lis is generally available in bath sets. The Amtech Creations, G12, 3511 Lawson Boulevard, Oceanside, New York, will make a toilet seat cover and waste basket out of either cloth or wallpaper and give it a vinyl finish for you. You furnish the material.

Then there are copies of Van Gogh "Iris," so vibrant they will clash with almost everything, except where wallpaper is plain.

There is one thing I'd like to impress upon you; if you see something "Iris" you must grab it quickly, because manufacturers bring out a new line every year. Then some of this stuff is offered at reduced prices just to get rid of it. Last year's dress materials with Iris were found in five different patterns, but this year it's all been gotten rid of to make room for new designs.

Since writing the above, another advertisement for vinyl Iris wallpaper with drapery to match has been found, called "Thelma," put out by W.H.S. Lloyds, Inc., New York and Chicago; it is multifloral. Single flowers are scattered with abandon. One, of course, our beloved Iris, looks like *Iris Reticulata*. That gives us wallpaper for five rooms, and if you have more rooms than that, then let one of the bedrooms have plain wallpaper but a nice Iris bedspread with draperies to match. On second thought, the crocheted table cloth, made of heavier thread, could be a nice bedspread.

The Charming 40-Chromosome Siberians

Dr. Currier McEwen

As is of course well known, the irises classified as belonging in the series *Sibericae* are divided into two main categories on the basis of their chromosome numbers, i.e. those with 28 chromosomes and those with 40. The 28-chromosome category contains only two species: *I. siberica* which has given its name to the entire series and *I. sanguinea* which formerly was called *orientalis* until it was accepted that that name properly belonged to a species in the section *Spuria*. In contrast there are ten species classified in the 40-chromosome category, namely, *I. chrysographes*, *clarkei*, *delavayi*, *dykesii*, *forrestii*, *phragmiteborum*, *wilsonii* and *bulleyana*, although there is considerable question whether the latter is truly a species. Although some of the early hybridizers, and notably Perry in England, worked with the 40-chromosome group in the 1920's and made a number of successful species and interspecies crosses, interest in both England and the United States has, for the most part, been limited to *I. siberica* and *sanguinea* and the distinguished cultivars derived from them. The list of the latter is now long and includes such fine older ones as SNOW QUEEN, GATINEAU, CAESARS BROTHER, HELEN ASTOR, COOL SPRING, MOUNTAIN LAKE, TROPIC NIGHT and many others and the more recent outstanding cultivars such as the Morgan Cup winners WHITE SWIRL, BLUE BRILLIANT, VIOLET FLARE, PRIOUCETTE and VELVET NIGHT and McGarvey's DEWFUL which won the President's Cup in 1970. Until relatively recently, however, one has heard rather little about the 40's, but now interest in them has revived.

The new start with the 40-chromosome species is linked with the name of Maurice Kitton in England. Some of our excellent 28-chromosome cultivars have come from his hands (WHITE MAGNIFICENCE, WHITE HORSES, JAPANESE WHITE, JIMMY'S GEM, WHITE CAPE, CANFORD, BICKLEY CAPE to mention some of them) but he also began working with the 40-chromosome species, using especially *I. delavayi* crossed by *I. forrestii* and *I. wilsonii*. From the former of these crosses have come a series of yellow and apricot flowers some of which have been named: COPPER ELF, YELLOW COURT, WHITE NET, YELLOW APRICOT and OYSTER BIRD. The latter is especially interesting with rather small flowers of pale apricot-buff and delightful markings at the base of the falls. Its height is low in keeping with the size of the flowers. His one introduction from the *I. delavayi* x *I. wilsonii* line is BARBARA'S CHOICE, a near white flower with violet etching in the center of the falls, giving a somewhat plicata-like effect.

Also in England, Mrs. Doris Hansford has introduced a series of charming seedlings from crosses of *I. bulleyana*. Most of these introduced are in yellow tones derived from her CHARM OF FINCHES, a soft yellow flower with black markings at the base of the falls. One, however, is in shades of blue (BLUE SIGNAL) and another (WATERSPRITE) is mauve.

I. chrysographes is a handsome species in various shades of reddish-purple on three foot scapes. Its characteristic neat golden line instead of a blaze at the base of the falls is an attractive feature. From *I. chrysographes* breeding Mr. Kitton obtained his COURT VIOLET which is a dark blue-purple with a delicate pale basal line; and in this country McGarvey has introduced his very dark selection as *ID*.

As noted above, Mr. Kitton has made much use of *I. forrestii*. This yellow species, which is one of the most attractive, has been grown extensively also by McGarvey, who has selected two outstanding seedlings from those he has obtained from *forestii* x *forrestii* crosses. These have been introduced as KING'S FORREST and FORREST SCION.

In this country Leona Mahood and Jean Witt in Oregon are among the few who have used the 40-chromosome Siberians seriously in hybridizing. In addition to their delightful Cal-Sibe hybrids they have introduced a number of Siberians in shades of blue, notably NIGHT FALL, a dark blue-purple with gold markings, and the lighter, speckled PUGET POLKA and CAMOUFLAGE.

Mrs. McEwen and I have been fortunate to obtain many of these cultivars noted above and have found them not only interesting and attractive garden subjects, but a challenging group for hybridizing. Whereas they will rarely cross with the 28-chromosome Siberians, all of the 40-chromosome species and their hybrids which we have tried have intercrossed readily. From seeds derived from Mr. Kitton's and Mrs. Hansford's cultivars we have bloomed several hundred seedlings during the past few years which have strengthened our conviction that the 40-chromosome Siberians are a rewarding group to work with and deserve the attention of all who are interested in irises.

Marguerite Hall Iris Test Garden

The Lompoc Valley Robert R. Young Iris Society recently held dedication services for the Marguerite Hall Iris Test Garden. The society was named for "Bob" Young, who in a short time made many friends and great interest in irises in the Lompoc Valley. About a year ago, Mrs. Hall, a lifelong gardener and a civic leader, offered the use of a plot of ground for an iris test garden. The club voted to dedicate the garden in her name.



Left to right: Vaughn Proctor (kneeling), Dale Laubly, Betty Thompson, Marguerite Hall, Mrs. Franklin Adam (Mrs. Hall's daughter and publisher of the Lompoc Record Publications), Irma Henderson and Anne Proctor.

NORFOLK, VIRGINIA MINI TOUR

Rena Kizziar

WELCOME AZALEA FESTIVAL AMERICAN IRIS SOCIETY MINI TOUR

What could you possibly wish for on a Mini Tour?

GOOD WEATHER? The day couldn't have been better for viewing the host of pretties displaying their varied charms!

ABUNDANCE OF BLOOM? We had that too — ranging from a few miniatures through a far greater number of standard dwarfs to arilmeds and intermediates.

BABIES YOUR BAG? Tiny, aril-appearing BUDDHA SONG, with its blue-white standards and tucked blue-violet falls, vied with another Dunbar origination, bold cream and white SUN CLIPPER. Taking honors for the greenest falls was Rosenfels' IRISH WHISPER.

ARILMEDS? Perhaps the most aptly and provocatively named was Rich's lusty one, LOUD MOUTH. Its wine-red blooms were etched sharply in white and red in the beard area, punctuated by a black signal, and looking for all the world like a wide-open mouth!



Bee Warburton, Rena Kizziar.
(Photos by Maynard Harp)



Mrs. James Shepherd, Dr. Anne Lee,
Mrs. Irving Russell.

SOFTER HUES? There was a multitude of these as well. There was Goett's DOLL APRON, always the lady, white, daintily edged rosy lavender on the standards with only a suggestion of an edge on the falls. The cool perfection of his lemon-toned BLONDE DOLL provided a foil for brighter colors. This has the added bonus of rebloom. A third member of the Goett trio, lovely PAMELA ANN, added a twist of sharp lemon. One of the most beautiful of plicatas was Keith Keppel's intermediate, PALE CLOUD, white stitched blue-lavender. In more subtle tones was IRISH SEA (Roberts), a pale green standard dwarf with a strange hint of blue around the blue beard, as though some of the beard color had run over. With some varieties the name says it all — such is the case with Alta Brown's satin-touched intermediate, FROSTED CREAM.

RUFFLES? Tall-bearded beauties have nothing on their smaller cousins.

Ruffles were in abundance on rose and violet FAIRY BALLET (Sarro) and pert white DEMI (Stephenson). LACE? Bee Warburton's LACED LEMONADE had smashing color, superb substance, and crisp lace as well!

STARS OF THE SHOW: TOWER GROVE (Wolff), an immaculate white with neon yellow shoulders, heavy substance, crisp jaunty blooms. And three from Bennett Jones: COTTON BLOSSOM — a creamy white with a trace of yellow at the haft, also heavily substanded; Jones M-197-7, outstanding cream and yellow with superb form; and KENTUCKY BLUEGRASS — strong yellow-green with bright blue beard.

There are always those which are too eager to wait for tour day and those that in the natural order of things bloom later. Such were GRANDMA'S HAT (Mahood), an older miniature but a charming one, with blue standards, light plum falls, yellow beard; BANBURY RUFFLES (Reath), heavily ruffled and flared violet, deeper around blue beard; Greenlee G-1, a unique combination of blue standards, deepening to violet at base, blue-white falls; INDIAN FIRE (Greenlee), outstanding dusky red intermediate with black-red spot in the falls, bright yellow beard; and many other exceptional ones.

Eleanor Wins Big



Eleanor McCown won both the Silver Medal and the Queen of the Show trophy in the first "For Spurias Only" iris show in history.

The locale was San Diego; the date was May 1, 1971; the show was staged as a component of the AIS Region 15 Spring Meeting. Among the entries were fifty-one different registered varieties of spuria irises (with numerous specimens of the more popular varieties) plus a significant number of spuria species and spuria seedlings. This was the largest number of spuria varieties ever assembled in any show, ever.

The judges selected Eleanor McCown's stalk of HIGHLINE SUNSET, her own origination, as Queen of the Show; and she captured the Silver Medal by winning more blue ribbons than any other exhibitor.

In addition to Eleanor McCown, some other Spuria Iris Society no-

tables who personally participated in the meeting were (alphabetically): Clarke Cosgrove, Art Day, Walker Ferguson, Bill Gunther, Ben Hager, James La Master, Archie Owen, Bob Schreiner, and Marion Walker.

SALEM, OREGON—1972

Paul Cook's Wide Iris World

Bee Warburton

Iris imbricata comes from the outer reach of bearded iris range—the Elburz Mountains in Iran. One of Paul Cook's rare contributions to AIS Bulletins concerned this species. This entry (105:79, July '47) introduces his first years of working with this plant, and we reprint it here:

"My stock of *imbricata* came from seed obtained from Rex Pearce in 1938 who had it listed as *sulphurea*. From seven seeds I raised five seedlings, some of which flowered in 1941, all in 1942. The five plants, all very similar, flowered well each year except when injured by spring freezes. *I. imbricata* is very early for a TB. Its blooming season overlaps with the dwarf bearded, while it is usually past by the time the TB varieties commence to open.

"The stems of *imbricata* are about twenty inches in average height, and they carry from seven to nine buds, three of which are often open at one time. The lowest branch leaves the stem near the middle and may be as much as eight inches long. Spathes are herbaceous, green and inflated. Flowers are small, with narrow segments, and give a skimpy effect. In color the flowers are pale buff yellow with a greenish tinge. By Ridgway the color of the standards of my five plants ranges through Massicott Yellow, Straw Yellow, Naphthalene Yellow and Barium Yellow. The ground color of the falls is the same. The greenish tinge comes from green veins at the base of the standards and in the falls.

"*I. imbricata* is distinct in many characters. The leaves are yellow-green, paler than ordinary iris foliage; they die to the ground before winter. The rhizome is minutely shaggy from the remains of old leaf bases, and is of different shape. This iris even has leaf spot in a different way from other bearded irises. But as a plant for garden decoration it is certainly one of the least attractive of all irises.

"*I. imbricata* has crossed easily with *I. pallida* and some diploid garden varieties, and the resulting hybrids are fertile. It has not crossed so easily with tetraploids, and the few hybrids so far raised have been only slightly fertile."

In his Journal Paul remarked in 1941 that plants of *I. imbricata* should be retarded to make its use with TB easier, and he wrote, "*I. imbricata* is a distinct species in every way and can't help but contribute some good characters to garden irises. Chiefly this year I crossed this yellow-flowered species with TB things that carried no yellow, such as SAN FRANCISCO, ORIANA, TP-8, CASTALIA, SWA-233. This is mostly exploratory, of course. It looks as though the yellow of *I. imbricata* might brighten up the pinks. What effect it will have on the blue color of irises is to be seen. *I. imbricata* has a long season of bloom."

1942. When all of his seedling plants were in full flower in 1942, Paul wrote, "Four of the nine stems have three open flowers each this morning. On two stems the branching is somewhat below the middle; the lowest branch is 8" long in one instance. In all cases flowers are held so as not to crowd—and this in a spring when iris stems in general tend to be very poorly branched and with few flowers. Stems average seven-eight-nine flowers and buds. Standards come together well at the top but are too narrow . . . falls narrow also, particularly in the upper part of the blade, the sides of the fall often pinching in besides, giving a skimpy effect. I can't see that the inflated spathes spoil the looks of the flower or stem. The tallest stem this morning is 23" to top of open flower, the average height of all stems about 20". Color of flowers a dull greenish buffish

yellow . . . The perianth tube is decidedly funnel shaped, being at least twice the diameter at the top as at the ovary end. Foliage yellow-green, distinct enough to catch the eye among the general run of hybrid TB irises. The leaves are erect for the most part, only the newest and weakest drooping at the ends. A distinct iris . . . Is the branching displayed by *I. imbricata* this season when it looks as if the branching is going to be so poor in TB irises any indication that this iris has a special resistance to drought in late summer and fall? If so, this species is worth consideration by hybridizers working in sections of the country where dry summers are the rule . . ." and "*I. imbricata* is not too attractive itself; with flowers pale greenish yellow and with narrow segments. But it must carry any number of factors not carried by any other bearded iris. These would recombine with factors from the other species and almost certainly some distinct hybrids could be obtained."

In 1942, the first year of free flowering of the species, Paul made much use of it both ways and produced a number of capsules with his best blues, his large pink, TP-8, and one of his SABLE line seedlings. "If *I. imbricata*'s yellow is a sap yellow, then it seems possible that this might have a bluing effect on the anthocyanin colors in bearded irises, and if this should turn out to be so, then considerably bluer color might be obtainable in irises. The pollen used on *imbricata* was from GREAT LAKES and from the better seedlings from 4737 X Great Lakes . . ." "If the yellow color of imbri is a plastid yellow, then it looks as if this species might be useful to brighten and purify the lavender-pink color of bearded irises, and it was with this possibility in mind that I put *imbricata* pollen on TP-8. *I. imbricata* is such a distinct species that it is almost sure that its factors for yellow coloration, even if this yellow is a plastid yellow, must be different from the factors carried by *I. variegata* . . ." and, he believed, would give a different or perhaps a combination effect. "This year's seeds, in addition to the few raised last season, should show how this species will be most useful."

1944. In the bloom season Paul wrote, "I am especially trying to pollinate as many blues as possible to test out *imbricata* as possibly carrying a bluing factor. But this year I am also using pollen of *imbricata* on several 24-chromosome varieties—TRUE CHARM, SNOW WHITE, LODESTAR and the seedlings of *pallida* I raised from seed received from Correvon under the name 'Varbosana.' Since it is hard to get seeds from cross pollinating *imbricata* and tetraploid varieties, it looks as if the combination wanted might be achieved indirectly by crossing imbri with diploid forms, then counting on the first hybrids from such crosses to produce unreduced gametes on occasion and so yield seeds to pollen of the 48-chromosome irises . . . There are two seedlings blooming from imbri crossed with a 48-chromosome blue. Imbri X (4743 x Great Lakes) . . . is a very pale blue, almost a blue-white except at center of flower where color is deeper; the pale yellow of *imbricata* is not in evidence. CASTALIA X imbri . . . a similarly colored flower." Seedlings from his orchid pink, SWA-233 X imbri, turned out to be about the same color. "SWA-233 is deep pink, and it is derived, moreover, from a long pink ancestry. Why are the flowers in the two present seedlings bluish instead of pinkish?" and, "From the few hybrids of *imbricata* that have flowered so far, I am definitely of the view that this species must be tested out for its different genes."

In midsummer of 1944 Paul wrote, "A capsule collected from a plant of *I. imbricata* has dehisced about 3/4 or 4/5 of the way down from the top of capsule to base. Ordinary tall bearded iris capsules only dehisce from 1/4 to 1/3 of the way down from the top. Thus here is another character in which imbri

differs from other tall bearded irises." "The attempt to combine imbri with blues must be repeated and persisted in. From results last season it looks as if the seedling imbri-blue might have come from an unreduced gamete on the imbri side and be tetraploid and fertile. This seedling should be used again with blues..." Paul thought that since imbri is such a distinct species, if it had formed a tetraploid from an unreduced gamete, with a blue tall bearded, such a tetraploid might behave as an amphidiploid, and if so, would need to be crossed back to tall blue to produce gene recombinations. "It would be only when F₂ seedlings from the cross back to blue are obtained that intercrossing could be resorted to..."

In October of 1945 Paul recorded that he had sowed two large seeds of imbri-blue X 9742 which were all that resulted from 15-20 pollinations of imbri-blue with big 4n blues. He concluded that the imbri-blue must be triploid. He also reset all blooming-size rhizomes of the SWA-233/*imbricata* seedlings. "In 1946 I want to try to get crosses made between some of these hybrids and some of the big 'cold' pinks, such as HARRIET THOREAU, DREAMCASTLE, etc., with the idea of putting imbri factors into the tetraploid pinks."

1948. In 1948 Paul summed up his work with *imbricata*: "The hybrids of *imbricata* have been few and far between. Of course, I've mostly been trying to cross the species to tetraploid blues, and here we run into the difficulty of crossing any diploid tall with any tetraploid tall. It is almost impossible to cross the pallida-imbri first hybrids back to the tetraploid blues, though I have made pollinations on a good scale for the past two seasons, in 1947 using pollen of 4n blues on *pallida* and *imbricata*, and in 1948 putting pollen of the pal-imbri hybrids on many 4n blues. F₁ seedlings from TRUE CHARM X imbri set seed slightly better to pollen of 4n blues than seedlings of pallida-imbri did." Later Paul wrote, "92 pollinations of pallida-imbri hybrids with mixed sib pollen resulted in no capsules at all, but capsules did mature on both the pal-imbri and the TBH imbri hybrids in 1947 and 1948 from insect pollinations and in 1947 I collected and sowed seed from both. In 1948 a few seedlings flowered from the backcross to *pallida* of some of the pal-imbri hybrids, and this backcross was easily accomplished. I also gave numbers to two or three seedlings from imbri-446 X 146, and at least one from 9742 X imbri-146. All seedlings saved showed some distinct characters which I ascribed to imbri influence. The flowers were always pale blue with falls paler than standards. The flowers have an opaque quality and at the same time there is a kind of luminosity to the color. The color is never particularly blue, at least not bluer than ordinary blues... It looks as if a fertile strain can in time be built up. Since triploids enter into some of these hybrids the strain may stabilize at something less than 48 chromosomes, but that is a small matter. I've not yet crossed imbri-247 with 146, but this must be done in a big way. Hardly too many seedlings could be raised from this mating at this stage of imbri hybridizing."

1949. And now, finally, we are coming up upon success, for we are discussing the grandparents and then one of the parents of WIDE WORLD. "Many of the new seedlings in the imbri line this year come from the cross of imbri 446 X 146, but some others have come from imbri 10046 X 146. Imbri-446 and 146 are from SWA-233 x imbri X tetraploid blue. Of course, these hybrids may carry the gene for red color. 10046 has nothing in it but *imbricata* and tall bearded blue, but seedlings from imbri-446 and imbri-146 X 10046 might in some cases carry the gene for red as well as the gene for blue."

And now, the parent of WIDE WORLD: "...17048, a large seedling

showing many characters of the imbri line . . . which opened first flowers in 1948, shows a decidedly distinct character. Color is not particularly blue but it has a kind of luminous quality. Standards are deeper than the falls and are rather longer and more erect than in most irises. Flower is large and gets away entirely from the skimpy appearance of *imbricata* and its diploid hybrids . . . this large and distinct seedling is from tall blue 9742 X imbri-146. This seedling has good pollen and so does its sib 14549 . . .”

“Next year I intend to make only one kind of cross involving the imbri line seedlings, to cross them to tall blues again. This kind of cross will permit further separation of imbri chromosomes . . . it might bring about the combination of genes for imbri yellow color and genes for tall blue color, which is what I particularly want to see.”

At this time also Paul made some crosses to combine pale amoenas from PROGENITOR with the *imbricata* hybrid line. “If the fertile tetraploid strain can be founded by mixing these two sets of hybrids together, and especially if genes for yellow sap in the two species, *imbricata* and the yellow dwarf parent of PROGENITOR, are different, this would establish a blue line that would contain many genes, all the genes practically that are carried in both imbri and the yellow dwarf not to be found in ordinary tetraploid blues. It will take many generations of breeding to work out the desirable combination of characters and to give all the various genes a chance to meet and interact. Can bluer color be achieved from such a mixed line, and how much bluer? Tall blue X imbri and succeeding generations from these first hybrids give seedlings often having most of the blue color in the standards, the falls being lighter or almost white. Tall blues X PROGENITOR, on the other hand, give seedlings with blue in the falls and white standards. Often the blue is clear and pure. If the two hybrid lines can be combined, will seedlings be obtained at times that carry both the opaque blue standards of the imbri line and the very blue falls of the PROGENITOR hybrids? Such a combination would be worth achieving and should be tried for.”

WIDE WORLD

“Imbri-151” (i.e. WIDE WORLD) “blooming for the first time in 1951, is the first really good *imbricata* hybrid so far obtained. This seedling has the color combination seen only in *imbricata* hybrids, pale blue standards and nearly or entirely white falls. WIDE WORLD came from repeated backcrossing of a first hybrid from *imbricata* and a diploid tall with cold pink flowers, to tetraploid blues. The color of WIDE WORLD is due mainly or entirely to an inhibitor gene carried in *imbricata*, the action of which is to suppress a little less than completely the blue anthocyanin of the blue talls. This inhibitor has the capacity of effecting a more complete dominance in the falls than in the standards. Seedling 17048 and WIDE WORLD both show this character. Presumably the character of pale blue standards and near-white falls will appear whenever such a color form as 17048 or WIDE WORLD is crossed to blue talls. Since the bicolor effect is rather weak in these seedlings it looks as if it might be intensified by backcrossing this bicolor form to blues of deeper shade. 16048 (i.e. the other parent of WIDE WORLD) “is a deeper blue than 12442 or 9742. This is the only good and distinct color character that has appeared from hybridizing *imbricata*.

“Presumably hybrids having white falls and pale orchid-pink standards could also be effected by repeated backcrossing to orchid pink talls such as HARRIET THOREAU and CLOUD CASTLE. The pale yellow color of *imbricata* has been recovered in one seedling from an intercross of two *imbricata* hybrids; in this

case, the dominant inhibitor presumably is also present. Now that a number of *imbricata* hybrids have been raised having tetraploid or near-tetraploid composition more rapid work in this line should be possible."

In 1952, "a few more interesting seedlings bloomed, 11952—a thick-petaled flower showing both blue and yellow as well as carrying the dominant white gene; 19652—deeper color spread throughout the entire standard and not just at the base as is usual with imbri hybrids; one or two seedlings from 9942 X 2950 which are distinctive dark blue self. 151 (WIDE WORLD) is distinctive and good again this season. The flower is large, of nice shape and unique in color. The texture of the large falls is pleasing."

Expanding the *imbricata* line

"In 1954 two new seedlings bloomed that seemed to be advances in *imbricata* lines. 8854 has the same pattern as WIDE WORLD but the color is much deeper. It is from 10249, a deep blue self, by WIDE WORLD. This result raises the prospect of imbri strain seedlings with almost black-violet standards and very pale, maybe entirely white falls.

"Seedling 8754 is a flower in which the deeper color of the standards is spread evenly and not concentrated in the lower part. A few earlier seedlings of this pattern had appeared in the imbri line, but this one has much better color balance. This seedling, too, suggests things for the future. Taking these two new seedlings together, it is reasonable to think the complete sharply contrasted reverse bicolor can gradually be accomplished. If the very deep color of the black-violets, especially the very dark blue-black of 7854, 3850 and 11752, can be brought into the imbri line, and if the advanced pattern seen in 8754 and 8854 can be retained, some very striking bicolors will be obtained. Even if the deep color of 8854 could be spread over the whole standard of 8754, a significant improvement would be made.

"Inasmuch as the inhibitor gene of *imbricata* apparently acts on anthocyanin only, not on plastid yellow, it looks as if flowers having red standards and yellow falls can be obtained without trouble, and in such a cross as 2450 X WIDE WORLD the anthocyanin of the falls would be largely suppressed in those seedlings that carry the inhibitor gene of *imbricata*, while the red color would still appear in the lower part of the standards or throughout the standards in some instances. Possibly two generations of work might be needed to eliminate the blue of WIDE WORLD and to leave in only the redder color.

"The original idea in all this *imbricata* hybridizing was to find out whether this yellow species carries a bluing factor that might render ordinary blue anthocyanin of talls still bluer, and this is still undecided. In seedling 11952 both blue and yellow are apparent in the flower, but the inhibitor is likewise present and the general color is pale gray-blue. What color would appear from the combination of blue anthocyanin and the yellow of *imbricata* in the absence of inhibitor is what I want to know. 11952 shows more yellow than almost any of the tetraploid imbris, and it should be used in crosses to plain blue talls and the F₁ seedlings sibcrossed or crossed back to plain blue talls until the right combination of color genes is obtained.

"In my previous statement of the present situation in *imbricata*, I over-looked the blue selfs that have appeared in this line. These blue selfs are always pale, the color having an ethereal quality, and it carries well to a considerable distance as blue. I have done nothing to develop this blue self from the imbri hybridizing, but it is well worth working with. It is a distinct blue. Whether this imbri blue color comes from a bluing factor in *imbricata* I don't

know, but it seems probable that it does. At this time it looks as if imbri hybrid 11952 may be very useful in work for blue color, and I intend to use it so."

1957. "Three new seedlings showed up in 1957 which seemed the most strongly marked reverse blue and white bicolors that have come yet from imbri hybridizing. These seedlings, all sibs, are from dark seedling 7754 X WIDE WORLD. Seedling 7754, from 3850 (DARK BOATMAN) X 11752, a medium blue, is a very deep color, and this deep deep color combined with the particular inhibitor effect that imbri manifests, produced the sharp contrast in the new seedlings... they struck me as quite advanced forms in this reverse pattern. 7754 is the darkest color I had used until 1957. When the new seedlings flowered, pollen of one of them, 11457, was used on 7854, equally dark sib of 7754, 109 seeds being obtained... it is probable that the reverse bicolor of clean sharp contrast is still far off but the three seedlings of this year at least marked an advance and raised my interest in the line again."

Grays from the imbricata line

"In 1955 I made a number of crosses between blue and white imbri crosses and some of the reds. I thought that a reverse red and yellow pattern might be obtained, if not directly then a generation or two further along... no red/yellow bicolors showed up in 1957; however, some strange-looking grays appeared, three of which, from seedling 3350 X WIDE WORLD, were saved under number." "The general color effect of typical seedlings from these crosses is gray in both standards and falls, with some light tan suffusion and even some greenish, especially in the upper falls. The general color is light, and some reddish shows at the base of the standards as was expected, but yellow falls have not appeared and in fact it is only the stylearms and crests that are even close to yellow. These seedlings must be crossed back to red. It also seems possible that a line of gray flowers might be founded on the best of these grays... if the tan and greenish overlays could be left out... I don't recall ever getting this sort of gray flower color from crossing reds with dominant whites, which indicates that the *imbricata* inhibitor of tall anthocyanins is different from the general inhibitor in the whites and yellows. It is likewise possible the tinge of greenish in some of these seedlings might be strengthened, and pale green flowers obtained through selective breeding." In this year Paul made a few crosses and commented, "So I am getting in a little work on the imbris at least. There has been no big break in this breeding. It has been a matter of developing the reverse bicolor tendency that appears when blue talls are crossed with the species *imbricata*." The remainder of his work with *imbricata* was put into trying to darken the color of the standards and spread it evenly over the whole standard.

Nothing much came of Paul's long winter thoughts of other potentials or of the crosses he made in following up his speculations. This was largely due to his concentration on the PROGENITOR lines which also absorbed the efforts of the world's hybridizers, efforts with obvious results in bitones and bicolors of the greatest diversity. What might have turned up in the WIDE WORLD lines if they had also been explored in depth? Paul could not do it all; in the last years of his work he was plagued by late spring freezes and that dreaded plague of hybridizers, poor germination, and after the world had beaten a path to his door, his work was slowed by a constant stream of visitors. He once remarked after his retirement from the postoffice that nobody could know what it would mean to him to have his mornings free to work.

WIDE WORLD itself unfortunately became virus streaked, like so many

Continued page 65

IMPORTANT

THE AMERICAN IRIS SOCIETY

July 1, 1971

Dear AIS Member:

Each year the terms of office of four members of the Board of Directors expire, and four are elected to take their places. According to the bylaws of the Society, nominations for Directors are made by the Board and presented to all members before August 1 of each year. The Board of Directors, meeting in Wichita, Kansas, made the following nominations.

Mr. Earl T. Browder

Mr. William H. Peck

Mrs. C. E. McCaughey

Mr. Ira E. Wood

Each of the nominees has agreed to serve.

According to the bylaws, additional nominations may be made by any twenty-five members, of whom not more than twelve are from any one Region. Such additional nominations must be mailed on or before September 1, 1971, to the Executive Secretary, Mr. Clifford W. Benson, 2315 Tower Grove Avenue, St. Louis, Missouri 63110.

If additional nominations are made in this manner, a ballot on which is listed the names of all nominees will be issued to the members on or before October 1, and must be returned by the members on or before November 1 to the Executive Secretary.

If there are no nominations in addition to those made by the Board, its nominees will be declared elected and the issuance of a ballot to the members will be omitted, as provided by the bylaws.

Sincerely

William T. Bledsoe, *President*

The American Iris Society

AIS PINS

To be sold for the Scientific Research Fund. Lapel type \$2.50 each. Order from:

Clifford Benson, Secretary
2315 Tower Grove Avenue

American Iris Society
St. Louis, Mo. 63110

AIS AWARDS 1971

Votes

Votes

The Dykes Medal

131 DEBBIE RAIRDON (Kuntz)

Runnersup

119 BABBLING BROOK (Keppel)	55 LAURIE (Gaulter)
91 CUP RACE (Buttrick)	46 CAMELOT ROSE (Tompkins)

COOK-DOUGLAS MEDAL (SDB)

123 GRACE NOTE (Hamblen)

Runnersup

101 CIRCLETTE (Goett)	75 EYE SHADOW (Roberts)
79 VELVET TOUCH (Dennis)	55 JOY BRINGER (M. Brizendine)

HANS AND JACOB SASS MEDAL (IB)

69 SING AGAIN (Plough)

Runnersup

65 GOLD BUTTONS (Hamblen)	63 ARABI TREASURE (Burnett)
64 MAROON CAPER (Warburton)	48 LE SABRE (Plough)

KNOWLTON MEDAL (BB)

116 CRYSTAL BAY (B. Jones)

Runnersup

64 NATIVE DAUGHTER (Noyd)	60 BROWNIE SCOUT (Gaulter)
61 LACE VALENTINE (Warburton)	18 ROBBY (Hamblen)

AWARD OF MERIT (TB)

Votes

247 PINK TAFFETA (Rudolph)
218 NEW MOON (Sexton)
193 FLIGHT OF ANGELS (Terrell)
190 GALA MADRID (L. Peterson)
186 CHERUB CHOIR (Corlew)
162 WEST COAST (Knopf)

Votes

158 WAR LORD (Schreiners)
130 MATINATA (Schreiners)
118 CALIENTE (Luihn)
115 NIGHT HERON (Tucker)
113 CAMBODIA (Babson)
101 PUNCHLINE (Plough)

Runnersup

99 STUDY IN BLACK (Plough)
91 CHARMAINE (Hamblen)
89 MAHALO (Ghio)
87 ROYAL HERITAGE (Luihn)
84 BACCARAT (Gaulter)
84 CREDO (Babson)
83 JOLIE (Schreiners)
83 PINK FRINGE (Rudolph)
81 COUNTY FAIR (Corlew)
81 LIGHT FANTASTIC (O. Brown)

76 VITAFIRE (Schreiners)
74 FLAMING STAR (Plough)
71 MINNESOTA GLITTERS
(Bakke-Messer)
71 MUSIC HALL (Hamblen)
68 ETERNAL FLAME (Schreiners)
67 STARBURST (Tompkins)
66 FLUTED LIME (Noyd)
66 SAN LEANDRO (Gaulter)
65 MARQUESAN SKIES (Blocher)
65 TUXEDO (Schreiners)

AWARD OF MERIT (SDB)

80 RED HEART (A. Brown)

71 QUAIL (L. Craig)

76 LENNA M (E. Roberts)

Runnersup

61 BLUE CANARY (Hamblen)

57 TEBBY DARE (Wolff)

59 DOVE WINGS (Roberts)

56 BLOODSPOT (Tim Craig)

AWARD OF MERIT (IB)

Votes

104 LIGHT CAVALRY (B. Jones)

Votes

86 ORIENTAL BABY (Guenther)

88 ANNIKINS (Warburton)

Runnersup

65 PIXIE SKIES (Hamblen)

59 PREAMBLE (Keppel)

59 ILLIANA (Greenlee)

59 RASPBERRY FLIP (A. Brown)

AWARD OF MERIT (BB)

166 BRIDE'S PEARLS (A. Brown)

90 MISS RUFFLES (Wright)

141 JUNIOR PROM (Ghio)

Runnersup

82 NIGHT TRAIN (Varner)

57 LITTLE MARK (Quadros)

69 RASPBERRY PARFAIT
(McCaughey)

51 TOY SHOP (Fay)

CAPARNE AWARD (MDB)

25 BLUE BERET (E. Roberts)

Runnersup

24 BLUE CAPERS (A. Brown)

15 LEMON DOLL (Warburton)

22 SUN SPARKLE (Sindt)

13 NAVY FLIRT (Tutmark)

WILLIAMSON-WHITE AWARD (MTB)

WILLIAMSON-WHITE AWARD (MTB)

44 DAINTY DAMSEL (A. Brown)

Runnersup

43 TOPSY TURVY (Welch)

27 SHRINKING VIOLET (Hager)

41 DAINTY DOVE (A. Brown)

24 ICE FAIRY (Witt)

C. G. WHITE AWARD (AB)

159 ESTHER THE QUEEN (Hunt)

Runnersup

43 SONI CE (L. Peterson)

16 DARK EYES (Rich)

28 BETHLEHEM SONG (Foster)

16 SARACEN WARRIOR (M. Rogers)

WILLIAM MOHR AWARD (AB)

61 SAFFRON JEWEL (Abell)

Runnersup

58 SALETTA (Street)

29 SIR GORDON (McGee)

42 TRISHA (McGee)

26 POMO CHIEF (Knopf)

26 LAKE MATTAWA (Gadd)

DE BAILLON AWARD (LA)

- 36 DELTA KING (Hager)
Runnersup
30 CONTRABAND DAYS (Granger) 12 TARNISHED BRASS (Chowning)
13 MAD CAP (Davis) 8 MRS. MAC (Arny)

MORGAN AWARD (SIB)

- 69 SUPER EGO (McGarvey)
Runnersup
56 EGO (McGarvey) 44 LIGHTS OF PARIS (Rich)
50 RUBY WINE (Hager) 37 SPARKLING ROSE (Hager)

ERIC NIES AWARD (SP)

- 68 HIGHLINE LAVENDER (McCown)
Runnersup
Votes *Votes*
35 PORT OF CALL (Hager) 15 ARBITRATOR (Ferguson)
16 LYDIA JANE (Walker) 14 FAROLITO (Hager)

COOK-LAPHAM BOWL

- 106 CALIENTE (Luihn)
Runnersup
83 VITAFIRE (Schreiners) 26 POWER AND GLORY (Noyd)
31 CHERRY GARDEN (B. Jones) 25 CREDO (Babson)

CLARA B. REES CUP

- 97 FLIGHT OF ANGELS (Terrell)
Runnersup
52 CHRISTMAS TIME (Schreiners) 44 PIETY (Branch)
45 ERMINE ROBE (Schreiners) 33 HIGH SIERRA (Gaulter)

HONORABLE MENTION

(Tall Bearded)

- | <i>Votes</i> | <i>Votes</i> |
|---------------------------------|-------------------------------|
| 163 KILT LILT (Gibson) | 50 ON TARGET (Knopf) |
| 89 NEWLY RICH (Varner) | 47 CINNAMON TART (Muhlestein) |
| 89 PINK SLEIGH (Rudolph) | 47 SABER DANCE (O. Brown) |
| 88 LILAC TREAT (Niswonger) | 46 BURNING DESIRE (Hamner) |
| 85 FLUTTER OF PLEATS (Ohl) | 46 TUCSON (Hager) |
| 81 BALLYHOO (Keppel) | 45 YELLOW CHIFFON (Rudolph) |
| 74 ANGEL UNAWARES (Terrell) | 44 SNOW CLOUD (Schreiners) |
| 74 CHERRY ACCENT (Hamblen) | 42 CREAM TAFFETA (Rudolph) |
| 68 MANDARIN MOON (Moldovan) | 41 DEEP CARESS (C. Benson) |
| 63 DUTCH CHOCOLATE (Schreiners) | 41 HAPPY ENDING (Keppel) |
| 62 NIGHT OWL (Schreiners) | 41 OPENING NIGHT (Gibson) |
| 60 BUTTERED POPCORN (Palmer) | 41 ROYAL EGYPTIAN (Hinkle) |
| 59 CARO NOME (B. Brown) | 39 DEAR DOLLIE (Carter) |
| 59 GRAND WALTZ (Schreiners) | 38 ANGEL CHOIR (Schliefert) |
| 52 BUBBLING CHAMPAGNE (Terrell) | 38 FIFTY GRAND (Gaskill) |
| 52 HEY LOOKY (W. F. Brown) | 38 HAPPINESS IS (Kamps) |

- | | |
|--------------------------------|---------------------------------|
| 38 SNOWLINE (Schreiners) | 26 CAPE IVORY (Innes) |
| 37 BALKAN GLACIER (Hager) | 26 RADIANT BEAM (Olson) |
| 36 DECOLLETAGE (Hager) | 25 APPLEJACK (Schreiners) |
| 35 REGALAIRE (Schreiners) | 25 AZURE GOLD (Hamblen) |
| 35 SPRINGTIME FANTASY (Sexton) | 25 CARRARA MARBLE (Sheaff) |
| 34 PICTURE PERFECT (Rogers) | 25 CELEBRATION (Ghio) |
| 34 WHISPERING GLADE (Ghio) | 25 CLASSIC LADY (Noyd) |
| 33 AMOS SHERARD (C. Smith) | 25 DANCING SUNBEAM (Palmer) |
| 33 GALA AFFAIR (R. Brown) | 25 DISCOVERY BAY (O. Brown) |
| 33 SAILOR TOGS (Marsh) | 25 JOY RIDE (Noyd) |
| 33 SECRET PAL (Ohl) | 25 KENTUCKY HILLS (Noyd) |
| 31 BAMBOO CURTAIN (R. Brown) | 25 LADY OF LOUDOUN (Crossman) |
| 31 BLACK BART (Schmelzer) | 25 MERRY AIRE (Goodrick) |
| 31 CANDY SHOP (Corlew) | 25 MEGGIE (Gaulter) |
| 31 HAUNTING RHAPSODY (Ghio) | 25 PINK CHEER (Markham) |
| 30 FRANCISAN FRIAR (Corlew) | 25 SAPPHIRE SHORE (Tompkins) |
| 30 ORCHID WINGS (Hamblen) | 25 SUNSET SKY (Roe) |
| 29 WARM LAUGHTER (Schreiners) | 25 TROPIC SUN (Hamblen) |
| 28 RIPPLING ROSE (Gibson) | 25 VIRGINIA LOUISE (Knocke) |
| 27 WOODLAND ROSE (O. Brown) | 25 WANDERING WIND (H. Reynolds) |

(Miniature Dwarf Bearded)

- | | |
|-------------------------------|-----------------------------|
| 37 CANARY CAPER (E. Roberts) | 15 SUNAIRE (Dunbar) |
| 33 HONEY BEAR (Mahood) | 13 BUDDHA SONG (Dunbar) |
| 24 BUTTERCUP CHARM (A. Brown) | 13 CREME DE COCAO (Sindt) |
| 24 SNOW BABY (Simonson) | 13 TURQUOISE GEM (Simonson) |
| 23 PANSY HEART (E. Roberts) | 12 NU-NU (Wissbaum) |
| 22 SKY DOT (E. Roberts) | 11 DOWN TOWN (Tim Craig) |
| 18 DARK NOTE (A. Brown) | 11 MARY B (Bierman) |
| 15 RED CUTIE (A. Brown) | |

(Standard Dwarf Bearded)

- | | |
|-------------------------------|----------------------------|
| 73 COTTON BLOSSOM (B. Jones) | 20 TREND (Newhard) |
| 36 LACED LEMONADE (Warburton) | 19 SKY BOLT (A. Brown) |
| 36 WOW (A. Brown) | 18 GYPSY FLIRT (Sindt) |
| 27 LADY (Warburton) | 16 ANGEL MUSIC (A. Brown) |
| 25 MOON SHADOWS (Sindt) | 16 PRECIOUS ONE (Guenther) |
| 24 DARK SPARK (Sindt) | 16 TOWER GROVE (Wolff) |
| 23 IRISH SEA (Roberts) | 15 BANBURY RUFFLES (Reath) |

(Intermediate Bearded)

- | | |
|-------------------------------------|------------------------------|
| 61 AZURE ECHO (Durrance) | 24 SVELT (Hager) |
| 56 EARLY EDITION (Keppel) | 20 CON BRIO (Warburton) |
| 50 BUTTERSCOTCH FRILLS
(Hamblen) | 20 INDIAN DOLL (Greenlee) |
| 29 AQUARIUS (Moldovan) | 17 PINK REVERIE (A. Brown) |
| 29 FROSTED CREAM (A. Brown) | 16 BERRY PARFAIT (Warburton) |
| 27 ROSE HARMONY (A. Brown) | 15 FAIRY FASHION (Hamblen) |
| 24 SNOW CHERRIES (Greenlee) | 15 ROCKET FLAME (Greenlee) |

(Border Bearded)

- | | |
|-----------------------------|----------------------------|
| 67 MEXICALI (Keppel) | 29 SMALL FAVOR (Hutchings) |
| 63 GIRL GUIDE (H. Reynolds) | 26 SORCERER (Ghio) |
| 40 MUGGSY (R. Blodgett) | 24 AMBERITA (Plough) |

24 CREME DE MENTHE (Wolff)
 21 CUPID DANCED (Pond)
 21 SATAN, JR. (L. Peterson)
 18 NIGHT TIME (Cook)
 17 CONSTANT LOVE (A. Brown)

17 RAIN POLL (B. Jones)
 15 CHEERFULNESS (O. Brown)
 15 LITTLE BUFFIE (Schortman)
 15 PEACH QUEEN (Tams)
 15 PETKIN (Zurbrigg)

(Miniature Tall Bearded)

76 BIT O' AFTON (Guild)
 62 DAINTY CLOUD (A. Brown)
 37 TALKS TO YOU (Kemp)
 27 NEW IDEA (Hager)
 20 GLINT O' BRONZE (Guild)
 19 GINGHAM BLUE (Dunderman)

16 DANI GRACE (Kemp)
 14 HIGH JINKS (Williams)
 14 ROSEGAY (Kemp)
 10 ENTRACT (Hager)
 10 FLASHING BEACON (Guild)

(Arilbred)

73 SYRIAN MOON (R. Brizendine)
 23 SARACEN SPLENDOR (Rogers)
 22 LOUDMOUTH (Rich)
 22 RARE SPICE (Foster)
 19 PERSIAN STAR (Foster)
 19 SYRIAN DAWN (Brizendine)
 17 SUDDEN BEAUTY (Clark)

16 CALIFA KABANG (Graves)
 16 TURKISH TRACERY (Foster)
 13 GRAND VIZIER (Hawkinson)
 12 KELITA JAROA (Rich)
 11 LEBANESE SNOW (Muhlestein)
 10 SPICED COFFEE (Holden)

(Louisiana)

25 QUEEN O' QUEENS (Holleyman)
 13 MRS. IRA NELSON (Arny)
 12 BRAMBLE QUEEN (Granger)
 11 CHARLIE'S MICHELE (Arny)

11 LAKE MAUMELLE (Chowning)
 10 BAYOU COMUS (Arny)
 10 FAENELIA HICKS (Arny)

(Native)

26 APTOS (Ghio)
 14 CALIFIA (Ghio)
 13 PASATIEMPO (Ghio)

11 EL TIGRA (Mahood)
 10 SWIRLING MIST (Witt)

(Siberian)

28 EARLY BLUEBIRD (McEwen)
 26 ORVILLE FAY (McEwen)
 25 FORETELL (McGarvey)
 16 LITTLE WHITE (McEwen)

14 SALLY KERLIN (McEwen)
 12 PUGET POLKA (Mize-Ruggles)
 10 FORREST SCION (McGarvey)

(Spuria)

122 ARCHIE OWEN (Hager)
 38 FORT RIDGE (Ferguson)
 33 RUFFLED CANARY (McCown)

31 RED CLOVER (Ferguson)
 30 HIGHLINE SUNSET (McCown)
 21 GAY GARB (Ferguson)

Be sure to send your Symposium ballot to your Regional Vice President.

JAPANESE IRISES AWARDS

The awards for Japanese irises will appear in the October *Bulletin*. All judges who have seen Japanese irises this year should send their votes for the Payne Award, the HM and the HC to: J. Arthur Nelson, 3131 North 58 St., Omaha, Neb. 68104, before August 5th.

HIGH COMMENDATION

(*Tall Bearded*)

Votes Hybridizer and Iris

7 Abell: Naive
 7 Babson: R65-14
 5 Babson: Q92-48
 7 Bakke-Messer: Colonial Velvet
 5 Beattie: 66-3
 5 Bellagamba: 4665-A
 8 Benson, C.: 69-12
 7 Benson, C.: 71-30
 6 Benson, C.: Maestro Puccini
 5 Bledsoe: Blue Bonanza
 5 Blocher: B-221
 5 Blocher: B-310
 5 Blodgett, A.: 60-39
 8 Blodgett, R.: 60-34
 5 Blodgett, R.: 69-29A
 10 Boushay: J68C-27
 11 Brizendine, R.: B-68-64
 5 Brown, B. J.: 25-68
 6 Brown, C.: H-7-2
 17 Brown, O.: 7-23A15
 8 Brown, O.: 6-5C-48
 5 Brown, O.: 8-1A-17
 5 Burger: D-21
 5 Burger: C-23
 5 Carr: 66-7F
 7 Carter: Arctic Viking
 5 Carter: 70-2
 16 Corlew: Secret Heart
 5 Corlew: C2-7A
 5 David: 28-71
 5 Elkins: 68-04
 5 Ensminger: 66-29
 5 Ewing: EW-63-14B
 10 Flanagan: 64060-2
 6 Flanagan: 61202-15
 9 Gadd: 26-68
 5 Gadd: 6C-42
 7 Galer: 66-187-3
 5 Gaskill: 966-20
 7 Gatty: 28-C
 6 Ghio: 67-749
 5 Gibson: 36-8A
 5 Gibson: 23-7B
 5 Gibson: 50-7D
 5 Goodrick: 125-4
 6 Graham, T.: 15-66E
 15 Hamblen: H64-16D
 14 Hamblen: Flamingo Fling
 11 Hamblen: H67-104B
 9 Hamblen: H67-37C
 7 Hamblen: H66-82A
 6 Hamblen: H67-92
 7 Hamner: 67-18
 8 Heisz: 29-65
 5 Hildenbrandt: 68-17-14
 18 Hoage: H-66-21A
 10 Hooker: 8108H
 17 Humphrey: Angel's Art

26 Jones, B.: 918-2
 10 Jones, B.: 918-1
 10 Jones, B.: 67-64-1
 7 Jones, B.: 924-1
 5 Jorgensen: J5-53-1
 6 Kegerise, G.: 67-746
 5 Kegerise, R.: 14-67
 5 Keppel: 67-2C
 6 Knocke: K-98
 5 Knocke: K-903
 7 Knopf: 67-17
 6 Marsh: 68-1
 5 Marsh: 69-71
 12 Mayberry: 65-1-1
 5 Mayberry: 64-8-5
 5 Mayberry: 64-19-1
 9 Munger: 66-1-D
 6 Niswonger: Elusive Dream
 5 Niswonger: 40-68
 12 Noyd: N69-8-5
 13 O'Brien: 65-42
 12 O'Brien: 66-14
 5 Ohl: 014-67A
 12 Olson: 63-29A
 11 Olson: 68-29E
 10 Olson: 68-1
 6 Olson: 68-30A
 5 Olson: 69-2A
 10 Palmer, D.: 362-A
 8 Palmer, D.: 3666B
 8 Palmer, D.: 3366B
 7 Palmer, D.: 77A
 6 Palmer, D.: 12669A
 5 Palmer, D.: 1469F
 6 Phenis: 30-67-1
 6 Reinhardt, M.: 71-5
 5 Reynolds, H.: 16-70
 6 Roach: 68-35
 20 Rudolph: 68-40
 13 Rudolph: 68-70
 8 Rudolph: 67-36
 5 Rudolph: 70-75
 11 Saddoris: 65-1
 5 Saddoris: 66-18A
 5 Schliefert: 66-83
 5 Schmelzer: B-19
 29 Schreiners: Y-906-3
 14 Schreiners: C-933-F
 13 Schreiners: A-7-C
 8 Schreiners: A-472-4
 7 Schreiners: C-118-A
 5 Schreiners: Y-1000
 17 Sexton: 59-1965
 7 Shaver: 66-12-1
 7 Shoop: 67-8
 7 Spence: 62-16-8C
 7 Spence: 64-28-7A
 7 Tams: T-18-68

6 Tolman: 64-90-1
6 Tolman: 64-249-3A
6 Tucker: 726A
6 Tucker: 726E
45 Varner: 884
9 Varner: 8235

6 Varner: 3141
5 Varner: 766
5 Welch, J.: 6917A
9 Wills: 54-67
6 Wright, M.: 70-5
5 Yunker, N.: 1570-2

(Miniature Dwarf Bearded)

7 Willott: 70-41

(Standard Dwarf Bearded)

5 Brown, W. F.: Bn-67-28A
6 Galer: Aunt Min
6 Galer: Blazing Violet
5 Gatty: 6BB
10 Hager: 2234C
6 Hager: 2234B
7 Hamblen: M67-1-5

7 Hamblen: M67-3-6
11 Jones, B.: M-197
5 Roberts: 71R8
5 Smith, P.: 67-155
7 Warburton: 116-N-1
7 Warburton: 87-N-1
5 Willott: 70-26

(Intermediate Bearded)

8 Gatty: 17R
5 Hager: IB-2264A
5 Jeffries: J66-15-A

5 Moldovan: Turtle Dove
8 Roberts: 70-R-47
6 Wright, M.: IB-5

(Border Bearded)

9 Brizendine: MB-51-67
17 Ensminger: 66-14
5 Hager: A2020B
7 Hamblen: H-67-35
5 Hamblen: M-67-9
5 Hamner: 67-37
8 Hoage: 66-21A
5 Jeffries: J67-11A
8 Jones, B.: B-44-1

8 Jones, B.: B-42-1
7 Niswonger: Raspberry Sundae
27 Ohl: 27-69
6 Ohl: 074-67A
9 Tams: T17-69
5 Wolff: Tanya Elizabeth
19 Wright: B68-15
10 Wright: B68-56

(Miniature Tall Bearded)

9 Guild: 63E9
7 Guild: 63E31
8 Reinhardt: 69-2

(Arilbred)

11 Brizendine: B-12-68
17 Danielson: R17
9 Danielson: 69-20
5 Foster: 70-6-1

8 Gadd: 6-C-42
7 Peterson: LP-66-13A
7 Peterson: LP-66-13AA
5 Peterson: LP-70-1A

(Louisiana)

10 Army: Clyde Redmond
5 Granger: QQ-66-45

10 Mertzweiller: Counterpoise
6 Neugebauer: Mitzie Lou

(Native)

5 Cook: L-8-10
6 Stambach: I-1-65
11 Weaver: 67-Z

(Siberian)

5 McEwen: 66-96A
5 McEwen: 67-98A
5 Varner: 1154

(Spuria)

16 Ferguson: 69-5
5 Ferguson: 71 Tour

5 Phenis: Antiqua
5 Roe, B. C-3-1
5 Roe, B. C-3-2

REGIONAL TEST GARDEN AWARDS

(Region 1)

Votes *Hybridizer and Iris*

12 Gadd: 63-55

8 Welch: 64-20A

5 Welch: 63-42B

5 Jacobs: 65-63-2

(Region 9)

17 Schafer: 9-76A

5 C. Brown: E-24-1

(Region 12)

5 Spence: 66-53-OA

(Region 18)

15 Olson: 683-1

11 Olson: 68-30A

9 Bellagamba: 2865

8 Niswonger: 35-64

8 Niswonger: 75-69

AGAIN

JAPANESE IRISES AWARDS

The awards for Japanese irises will appear in the October *Bulletin*. All judges who have seen Japanese irises this year should send their votes for the Payne Award, the HM and the HC to: J. Arthur Nelson, 3131 North 58 St., Omaha, Neb. 68104, before August 5th.

HANDBOOK FOR AMERICAN IRIS SOCIETY OFFICERS AND MEMBERS

An encyclopedea of the American Iris Society, written by Ira and Betty Wood.

\$2.00

American Iris Society

2315 Tower Grove Ave.

St. Louis, Mo. 63110

CONVENTION AWARDS

PRESIDENTS CUP

Votes

82 RASPBERRY RIPPLES
(Niswonger)

Runnersup

63 FLUTTER OF PLEATS (Ohl)
53 HEY LOOKY (W. F. Brown)
26 SECRET PAL (Ohl)

FRANKLIN COOK CUP

Votes

48 NEWLY RICH (Varner)

Runnersup

18 YANKEE BOY (Gadd)
16 ERMINE ROBE (Schreiners)
12 KILT LILT (Gibson)

FAVORITE GUEST IRISES

A record number, 202, cast Favorite Guest Irises ballots. As is to be expected, with large numbers of irises superbly grown and at peak bloom, there were many favorites, a total of 358 cultivars named on the ballots. Sixty-six irises received ten or more votes. Below is found the tabulated votes of the leaders.

100 NEWLY RICH (Varner)	34 ON TARGET (Knopf)
84 KILT LILT (Gibson)	34 ROYAL EGYPTIAN (Hinkle)
73 HEY LOOKY (W. F. Brown)	31 SECRET PAL (Ohl)
69 FLUTTER OF PLEATS (Ohl)	30 ELIZABETH STUART
64 HAMMERED GOLD (Schreiners)	(B. Jones)
60 LILAC TREAT (Niswonger)	30 ODYSSEY (Babson)
50 EAGLE HARBOR (O. Brown)	30 SYRIAN MOON (Brizendine)
46 CHAPEAU (Babson)	29 SNOW CLOUD (Schreiners)
40 BALLYHOO (Keppel)	28 ARCTIC DAWN (Olson)
38 CINNAMON TART (Muhlestein)	28 HATARI (Varner)
37 FLAMINGO FLING (Hamblen)	28 MAY ROMANCE (Crossman)
36 BURNING DESIRE (Hamner)	27 CAPTIVE CLOUD (Palmer)
35 BUTTERED POPCORN (Palmer)	27 DEAR DOLLIE (Carter)
34 CELESTIAL FIRE (Goodrick)	

Runnersup: 26 votes: BANDED BRONZE, CARO NOME, SECRET HEART; 24 votes: PINK CHEER; 23 votes: DEEP CARESS; 22 votes: BAMBOO CURTAIN, BUBBLING CHAMPAGNE, FIFTY GRAND, MAESTRA PUCCINI, SABER DANCE; 21 votes: REGALAIRE, WOODLAND SHADOWS; 20 votes: ANGEL CHOIR, DAWNBREAKER, DUTCH CHOCOLATE, GREEN-SLEEVES, RASPBERRY FRILLS, VENERATION.

MINUTES OF BOARD OF DIRECTORS' MEETINGS

Radisson Hotel, Wichita, Kansas

May 11-12, 1971

The meeting was called to order at 1:15 p.m. by President Bledsoe; in attendance were Vice Presidents Wall and Cosgrove, Past Presidents Fischer and Rogers, Directors Browder, Hamblen, Hanson, Jacoby, McCaughey, Scharff, Schreiner and Wood, Secretary Benson, Editor Nelson, Robins Chairman Christlieb, Membership Chairman Corlew, Test Garden Chairman Minnick, and Federal President of the Australian Iris Society Alan Johnson.

The minutes of the November 7-8, 1970, meeting, published in the January 1971 Bulletin, were approved.

It was voted to advertise in a leading coin magazine for the purpose of selling surplus Anniversary Medals at a minimum of \$2.00.

The subject of voting requirements for AIS awards, especially the HM award, was discussed. It was voted to discuss the matter with the RVPs, and get an expression of the membership through the RVPs, with the results to be reported at the fall Board meeting.

Mr. Browder's proposal for iris "notelets" and placemats, with a small rebate to AIS, was approved.

The special committee, headed by Dr. Cosgrove, to evaluate the bylaws for the purpose of recommending revisions, was unable to give its findings at this meeting, but will report at the fall Board meeting.

It was voted to increase the price of a full page display advertisement to \$70.00 for the April Bulletin only, with other sizes of ads to be priced in relation. It also was voted to omit from the April Bulletin commercial directory advertisements, carrying them only in the January, July and October issues.

It was voted to dispatch dues notices approximately thirty days in advance of date of termination.

It was voted that the Secretary furnish the Judges Chairman with roster of AIS judges who fail to pay dues by February 25 ("A" group) and August 25 ("C") group.

It was approved that the Judges Chairman, after consultation with AIS officials, will continue to have full authority to waive rules and regulations if warranted by individual cases and when exceptional circumstances prevail.

It was unanimously approved that the President-Elect be Dr. Hugo Wall.

It was voted that the fall Board meeting be held in Oklahoma City, November 6 and 7, 1971.

The meeting adjourned at 12:30 p.m. May 12.

Minutes condensed by the editor

Clifford W. Benson
Executive Secretary

MINUTES OF JOINT RVP-DIRECTORS' MEETING

Radisson Hotel, Wichita, Kansas

May 12, 1971

The joint meeting of the RVPs and the Board of Directors was called to order at 8:00 a.m. by President Bledsoe. Present were Vice Presidents Wall and Cosgrove, Past Presidents Fischer and Rogers, Directors Browder, Hamblen, Hanson, Jacoby, McCaughey, Scharff, Schreiner, Wood, Treasurer Ackerman, Secretary Benson and Editor Nelson. Mr. Bledsoe welcomed and introduced the officers, Directors, RVPs or their alternates, and guests. All but four Regions were represented, as was the Siberian Iris Society, the Reblooming Iris Society, the Spuria Iris Society, and the Median Iris Society. Special guests were George Mace of South Africa and Mr. and Mrs. Alan Johnson of Australia.

Secretary Benson reported on Society membership by Regions and States, the total being 5,819 as compared with 6,670 a year ago. Region 18 has the largest membership. Region 4 is second, Region 15 third, Region 6 fourth, Regions 14 and 17 tied for fifth, Region 17 sixth, Region 22 seventh, Region 2 eighth, Region 24 ninth and Region 13 tenth.

Treasurer Ackerman presented a financial report for the six-month period ended March 31, 1971, including a statement of receipts, disbursement and assets.

Additional reports were made by:

Earl Browder, Administration
Helen McCaughey, Affiliates and
Sections, Historian
J. Arthur Nelson, Awards,
Bulletin, Registrar
Jake Scharff, Convention liaison
Clarke Cosgrove, Exhibition
Hugo Wall, Judges Training,
Judges

Glenn Corlew, Membership
Tom Jacoby, Publications
Perry Parrish, Publicity
Melba Hamblen, Registration,
Awards revision
Leda Christlieb, Robins
Robert Minnick, Test Gardens
Betty Wood, RVP counsellor
Ann Dasch, Youth (by Blessoe)

Minutes condensed by the editor

Clifford W. Benson
Executive Secretary

MINUTES AMERICAN IRIS SOCIETY FOUNDATION

The Board of Trustees of the American Iris Society Foundation met at 12:30 May 12 to accomplish the proper paper work for incorporation, and to elect officers. The following were elected as officers:

President: Dr. Hugo Wall
Vice President: Judge Guy Rogers
Secretary: Clifford W. Benson
Treasurer: Jay C. Ackerman.

Clifford W. Benson, Secretary

1959 CHECK LIST

Until we reduce stock to 500 copies, we are offering the 1959 Check List for \$2.00, for those of you who can use a second copy, or want to get one now.

Clifford W. Benson, Secretary

American Iris Society

2315 Tower Grove Avenue

St. Louis, Missouri 63110



KAVAN'S IRIS GARDEN

Lucille J. Kavan

2310 So. 49th St.

Omaha, Nebraska 68106

1971 Introduction

SWEET CHARLOTTE—Sdlg 12-1958. MTB. 24".
W4Vcm. Standards white; falls violet edged white;
yellow beard. (Aphrodite x Austrian Pumila) X
Nambe.

Outstanding in a clump, many buds, long
bloom season \$7.50

FOR THE IRIS LIBRARY

THE GOLDEN ANNIVERSARY ISSUE BULLETIN OF THE AMERICAN IRIS SOCIETY. *A Bulletin that is the history of the American Iris Society for the first fifty years.* \$2.00

IRIS CHECK LIST 1969. *A compilation of irises registered and introduced from 1950 through 1969, with pedigrees and descriptions. The Golden Anniversary Check List.* \$6.50

IRIS CHECK LIST 1959. *A compilation as above, for years 1950 through 1959. Until stock is reduced to normal future demands.* \$2.00

IRIS CHECK LIST 1949. *A compilation as above, for years 1940 through 1949.* \$2.50

HANDBOOK FOR JUDGES AND SHOW OFFICIALS. *A must for those who plan to take Judges Training Schools, and valuable for every person who desires to know the standards by which irises are judged. To AIS members, \$1.50; to non-members \$2.00.*

HANDBOOK FOR THE AMERICAN IRIS SOCIETY MEMBERS AND OFFICERS, *written by Ira and Betty Wood. An 84-page encyclopedia of AIS and its activities.* \$2.00

REGISTRATIONS AND INTRODUCTIONS IN 1970 \$1.00

WHAT EVERY IRIS GROWER SHOULD KNOW. *A little 32-page booklet, with twenty-seven pictures in color which we have found interests the public, and can be used to loan to friends and customers to help interest them in irises.* \$1.00

AND DON'T FORGET *that while the Silver Anniversary Medals are all sold, we still have Bronze Anniversary Medals at \$1.25 each. This is a limited mintage, and serve well as Christmas gifts, awards to outstanding local club, area and Region members, and for special show prizes. They will be offered to coin collectors at \$2.00 apiece after this ad appears.* \$1.25

Plastic boxes as containers for medals, with green foam rubber pad. . . \$0.20

AND REMEMBER: *A membership in the American Iris Society will make a fine Christmas present for that gardening relative or friend.*

THE AMERICAN IRIS SOCIETY

Clifford W. Benson, Secretary

2315 Tower Grove Avenue

St. Louis, Mo. 63110

RHOLIN COOLEY

Just as we go to press, we had a telephone message that Rholin Cooley had passed away.

THE AMAZING TWIN CITIES SHOW



Thousands viewed the show.



The Holloways' Queen of Show
JOLIE



Mrs. Fisher's Best Arrangement
of Show.

species hybrids, and is seldom seen any more. There are a few WIDE WORLD descendants in commerce showing the "reverse amoena" pattern, among them Tucker's OKAW BLUTOP, NIGHT HERON and PEBBLES, Tompkins' BROOK SONG, Nelson's FRENCH FLAIR and its beautiful children, PACIFICA and Plough's OCEAN SHORES. There are also good reverse amoenas with no *imbricata* ancestry, including Varner's AVIS lines. Perhaps in the light of Paul's experiments, the *imbricata* lines might still have a bluing effect on the others, or even on some of the very fine orchid reverse bitones of recent years.

Certainly, given the considerable unattractiveness of *imbricata*, the story of Paul's work with it is a story of unfaltering patience and courage.

A Theory Which Seeks to Explain the Recent Large Improvement in the Quality of Siberian Irises

William G. McGarvey

Let's begin by recounting a few facts. Previous to 1950 there had been no significant improvement in the quality of Siberian irises for a period of thirty years.¹ From 1950 to 1963 only four significantly improved forms were introduced.² But since 1958 I have had hundreds of seedling Siberians, the majority of them much better in many ways than all but a few of those still in commerce today. More recently other hybridizers are reporting similar successes.

From my good seedlings I selected and registered fourteen between 1963 and 1970.³ That these are good irises is obviously a matter of my own judgment, but their virtue is also attested by what has happened to them since introduction.⁴ All of those in commerce for two years or more have been receiving high praise and awards as well as distribution around the world. None of these irises were introduced before 1966, which means that more improved forms of Siberian irises were introduced by one hybridizer in three years than were introduced in the previous forty years. That this could happen is worthy of an examination and, if possible, an explanation.

One reason for the lack of good new forms is obvious. For that whole long period of time, no one, with three exceptions, had been getting any improved seedlings worthy of introduction. Previous to 1950 and even until 1963, most of the introduced Siberians were only different from those in commerce in minor and insignificant ways.

A fact about the exceptions can aid in our attempt to explain both the rush of improved forms since 1963 and the lack before that time. The four exceptions were accidents and not the result of purposeful hybridizing. This statement should not be regarded as an attempt to belittle those who introduced them, for the ability to recognize and save a good seedling may be just as important as the ability to plan to get one. But the fact still remains that not one of the four exceptions selected by three different persons is from known parentage. They came from "bee pods." WHITE SWIRL, for example, was by far the most significant improved form to appear during 1950-63 and it came from seedlings that Fred Cassebeer grew from planting a whole bushel of Siberian seed.⁵

Why, from the thousands of seedlings that Fred grew at that time, did he only get one that was worthy of introduction? Why would so much Siberian seed, even though it was from uncontrolled pollinations, produce only one

seedling that escaped the taint of aesthetic mediocrity?

The answer to these questions seems logically obvious to me now, though it certainly escaped me for a long time. I am convinced that Siberian irises are self-pollinated to a larger degree than all other iris species with the possible exceptions of *I. setosa* and *I. versicolor*. Beyond this, the five or six Siberians that Cassebeer grew at the time were all representatives of what I am now convinced are self-fertile inbred lines which shall be discussed later, but about which it will suffice to say now that they produce progeny closely similar to themselves.

That Siberian plants tend to self pollinate may not be widely known, but that they tend to have many seed pods will not surprise any one who grows them. In fact, this tendency to pod became incorporated in Siberian lore as the often repeated "fact"—"It is not worth while to make Siberian crosses because you can't control them."

As I have reported elsewhere⁶ one of my first experiments involving Siberians was an attempt to check on this you-can't—control-crosses belief. This attempt resulted in complete success since I prevented the pollination of fifty Siberian blossoms and it gave me the knowledge that such crosses can be controlled.

These experimental results contrast with the evidence that most of the blossoms of Siberians in my garden to develop seed pods every year. These must be carefully harvested and destroyed to avoid growth of unwanted seedlings.

This saturated podding of Siberian plants contrasts with the lack of seed pods on my many bearded plants. Since I have thousands of plants I still get a lot of pods, but few flowers on the bearded plants develop pods. The only exception occurs among a number of *Imbricata* hybrids that pod almost as freely as my Siberians. As a generalization, bearded irises are certainly not subject to much wind or other types of self-pollinization. Hundreds of my attempts to self bearded irises have failed for every success. (PLUIE D'OR and its seedlings are interesting exceptions)

Why is it that the Siberians exhibit so much self pollination?

The first, and perhaps most important reason is that they lack the incompatibility factors possessed by many plants that cause them to refuse, or at least to resist, self-pollination. The only Siberians that I have not been able to self are the hybrids between the 28- and 40-chromosome species (I now have an exception in my seedling 'FORETELL') and those that produce no pollen.

A second factor is mechanical. The stigmas of Siberians have stiff projecting triangular tongues which do not fold up and out of the way as the bumblebee backs out from under them. Rather, they stick out and comb through the pollen laden hairs of the body of the bee and hence collect pollen in a way that many species of iris do not. That the honey bee is just about as capable of pollinating a Siberian iris as is the bumblebee is in part determined by this same factor.

This same physical or mechanical factor operates in another way. The pollen of Siberians drops off the anthers when it is ripe as a result of the smallest disturbance or movement of the flowers. Much of this pollen drops on to the falls. Further motion of the flower brings the stiff downward pointing triangular tongue of the stigma into contact with the surface of the fall and self-pollination takes place.

Inbreeding, made more than usually possible by the absence of incompatibility factors, has, in a hen-egg kind of relationship, continued this process and has perhaps enhanced it. I have successfully selfed all of the Siberians I have used

in my experiments except WHITE SWIRL. This plant, when located a sufficient distance from all other Siberians (150 yards in my garden), tends not to develop seed pods at all. Since bees and other insects still visit this plant in its isolated situation, the absence of pollinations still argues for self-pollination as the rule for Siberians since WHITE SWIRL seems not to discharge any pollen during such visits and hence it misses pollination—self, or otherwise.

Other factors which support the argument for maximum selfing and inbreeding are the lightness of Siberian pollen as compared with that of many other irises. This increases the chances for airborne pollination. Beyond this, Siberian pollen remains viable when placed on the stigmatic surface before that surface is ready to accept pollination. Such pollen begins growth only after the stigma becomes receptive.

In my garden the visiting patterns of bees is still another influence for the selfing of Siberians. If the clump in full bloom is located even a small distance away from another, a bee will tend to visit the flowers of that clump before moving on to another.

That humming birds and humming bird moths can make significant contributions to the self-pollination of Siberians is an observation that I am convinced is correct but rather difficult to check experimentally. Since the process would have to take place when the pollen is free to be blown about by the fanning of wings, a number of other causes of pollination that could occur at that same time would have to be controlled before bird or moth influence could be measured.

That flies and other insects can cause the self-pollination of Siberians is a fact that can be partly explained by the influences already mentioned. These complete the major influences for self-pollination in the Siberian species.

Any attempt to explain the sudden appearance of changed (improved in this case) forms of species should also offer some explanation for the continuation of older (conventional) forms. The most important influence for both recent change and forty years of lack of change in the appearance of Siberians, as I have come to understand what happened, is INBREEDING. The importance of the tendency for Siberians to self-pollinate really grows from its influence on the process of inbreeding. Inbreeding is the process of mating closely related individuals and the extreme form of this process is SELFING.

Selfing, more than any other form of breeding, tends to make a population homozygous with respect to its genes. It tends to bring together in the same individual the recessive mutations that are destructive and as a result to destroy the individuals that carry them in the combined or homozygous condition. But the genes for good as well as for poor characteristics are also brought together by inbreeding and when this occurs in nature, vigorous though closely inbred lines may develop as is clearly true for such plants as wheat and oats.

Though selfing has an overriding importance as an influence on the characteristics of Siberian irises, cross pollination can and does take place. In either case the influence of the entire available pool of genes within the Series *Sibiricae* is significant to any understanding of the species of the Series. But of more immediate importance to those who are interested in the various species as garden plants, is the pool of genes available to the hybridizer since this latter complement of genes is most certainly quite small as compared with what may exist in nature. The number of individual clones or seeds of Siberians that were brought to America were few in number and new imports from the original locations or from any place have never been many. Though such limitations on

the size of the pool of genes is also true for species other than Siberian, other species have not been so influenced by selfing and hence inbreeding.

Beyond being influenced by the limitations of the pool of genes that was imported, Siberian irises have not been subject to the same kinds of inter-specific crossing that has resulted in the movement of bearded garden irises away from diploidy (having two sets of chromosomes, even as you and I) and toward tetraploidy (having four sets of chromosomes). Only two species of Siberians, *I. sibirica* and *I. sanguinea*, have been interbred to produce almost all of the hybrid garden varieties. These are the two 28-chromosome species of the series. Not being subject to the diploid-tetraploid trend of the bearded irises, the *sibirica-sanguinea* complex has also missed the effects of having the genes from dozens of quite dissimilar species added to its genetic pool.

So we have the combination of a limited pool of genes and the second factor of consistent inbreeding which together create the very conditions necessary for the natural development of *pure lines* of 28-chromosome Siberians. It is my considered opinion that this is what has happened.

Difficult to understand and to an amazing degree, the 40-chromosome Siberians have been ignored as garden plants in America. Two of the fourteen Siberians that I have registered and that were introduced are plants from pure 40-chromosome breeding. (ID from *I. chrysographes* and KING'S FORREST from *I. forrestii*) Another *I. forrestii* plant was introduced in 1970. Few gardeners grow or even know about the 40-chromosome species of Siberians. But even when they are grown together with the 28-chromosome plants, and in spite of the fact that the 28- and 40-chromosome plants cross quite freely, their progeny are almost always infertile. (As previously mentioned, I do have one exception.) As a result there has been almost no interference in the process of inbreeding within the 28-chromosome complex.

The 40-chromosome species of Siberians would be subject to some of the same influences as those described for the 28-chromosome group. But the fact that there are eight of the former as compared with only two of the latter and that the plants of the eight species interbreed freely to produce fertile hybrids means that the genetic pool for the 40-chromosome group is potentially vast as compared with the *sibirica-sanguinea* pool. But the plants of the 40-chromosome species self inbreed as freely as do the 28-chromosome varieties. This certainly means that a tendency toward the development of inbred 40-chromosome lines could have occurred when the plants were growing in their native locations. It seems logical to conclude, therefore, that although the generalizations being developed here are primarily directed toward explanation of the progress of 28-chromosome Siberians, they should also help to explain the 40-chromosome groups as well.

The results of experimental selfings have been extremely interesting and quite consistent with the positions being taken here. It must be emphasized that what I am discussing here is the selfing of parental stock or the further selfing of the progeny from such breeding and not the selfing of the hybrids from the crosses between the parental plants. The latter type of selfing shall be discussed later.

Selfing such plants as GATINEAU gave me many plants that were amazingly like their parent in height, form, growth habits and color. In quite a few cases selfings of this type gave me many plants that were so similar to the parents that detailed comparison revealed so few differences that only careful tagging and mapping in the garden could insure against confusing parents and progeny. That

some of these selfings produced useful color differences from their parent as manifestations of recessive genes does not alter in any significant way my conclusions that selfing certain Siberians tends to produce plants much more like their parents than different from them. Though the presence of recessive genes that are essentially neutral in their influence (neither advantageous nor disadvantageous) is not as likely to be continued as the presence of genes that produce a positive advantage for a species, such presence is not surprising.

Selfing of the type under consideration resulted in plants so much like the parent plants that confusion between parent and progeny was bound to occur and result in the sale of look-alike plants being sold as representative of a single clone. I am satisfied, for example, that ROYAL ENSIGN is represented in commerce by more than one clone as was demonstrated by the results of my own experimental breeding program.⁷

Siberian irises seem to provide us with an interesting example of a case that falls some place between such consistently self-pollinating plants as wheat and oats, which in nature have produced many vigorous lines despite inbreeding, and the pure inbred lines of corn that have been developed by modern plant breeders. I place the Siberians in between because they are not so strictly limited to self-pollination as is true for wheat and oats, but they have still developed into vigorous inbred lines from which recessive harmful genes have been removed. But in this way they are also different from the man-made pure lines of inbred corn, which though also free of all recessive harmful genes and despite very careful selection, are still lacking the vigor that the Siberians have.

Although Siberian blossoms tend to be self-pollinated, they offer no special resistance to being cross-pollinated. Hence some heterozygosity is maintained within the many inbred lines despite their drift toward homozygosity. One evidence for such continuing variability is found in the very same plants that provide the evidence in support of the claim that Siberians drift toward homozygosity as a result of inbreeding. Those plants in commerce that came from unknown parents are particularly interesting with respect to this point. I have selfed a number of such plants and have had consistent results from all of these experiments. In every case the progeny was significantly more like its parent than different from it. This result supports the claim that Siberians tend to move toward homozygosity. But infrequently, one or two seedlings from a large progeny would be different from its siblings and also from its parent in some noticeable ways, and this provides evidence of continuing variability. One of my reasons for selecting CAEZAR'S BROTHER and GATINEAU⁸ for further serious study was that when I selfed them they both gave me a couple of plants that were different from themselves and from their other seedlings.

With regards to this discussion of the importance of and evidence for inbreeding within the Siberian species, it must be noted again that the seedlings that I judged to be different were actually and only different in attractiveness from my own point of view and not in ways that would have contributed to the survival of the species. In nature there is no genetic pressure toward the development of irises that win AIS awards. Planting the seed from "bee" or "wind" pods may result in a winner once in ten thousand times, but not much more frequently. It takes the interfering eye and hand of the hybridizer or student to increase the chances for the buildup of characteristics that have no natural survival value.

That inbreeding resulted in vigor rather than a weakening of Siberian species can be explained and should not be too surprising, considering where and how

fortuitous seedlings must grow. Siberian seed falls close to the parent plant. A given seedling would have to compete with its vigorous perennial parent as well as with its siblings in order to reach maturity. My examination of the seedling plants growing up around isolated and overgrown Siberian clumps revealed vigor rather than its absence. It will be said, of course, that seed is distributed in the same way for a majority of iris species. But few other species have command of their growth sites in the way that is true for Siberians. In root growth, only *I. ensata* occupies its territory as completely as does a Siberian plant. By fortunate circumstance, survival of the fittest does seem to describe what has happened to Siberians.

When man intervened to move Siberian clones from their natural habitat he had vigorous inbred lines to select from. But only a very small number of the available clones were brought to Europe—chiefly England—and to America. Those brought into cultivation were frequently planted together and some few purposeful crosses were made between them in the years between 1900 to 1930. During this time and on until 1960 a majority of the Siberians that were named and introduced were from chance pods. Mrs. Francis Cleveland, who introduced more named Siberian irises than any one else, for example, made most of her introductions between 1913 and 1939, almost all without pedigrees. In light of the tendency of Siberians to self-pollinate, the practice of planting the seed from chance pods was a return to nature's inclination toward the inbreeding of Siberians. Maintenance of the genes for vigor in the inbred lines was as well insured by this haphazard breeding technique as they would be by purposeful selfing.

In passing, and in consideration of the difficulty encountered in selfing tall bearded irises as well as the poor quality of the progeny resulting from the process, selfing is in general poor repute with hybridizers. It is doubtful that much purposeful selfing was done with Siberians or with any iris species.

It is impossible to know with any certainty which of the two Siberian species that were combined to give us a majority of our garden Siberians was genetically the more influential. But certain known influences may be considered and at least a logical position determined.

The influence of *I. sanguinea* (formerly and frequently called *I. orientalis*) was large. Although the flowers of the plants of this species were carried too low in the foliage, they were much larger and brighter than those of *I. sibirica*.⁸ The latter carried its flowers high above the foliage. Hybrids between the two produced much improved garden plants. It is obvious that *sanguinea* had a larger influence in terms of its use in purposeful hybridizing, to the degree that this was done, than did *sibirica* between the years 1900 and 1930. Such importers as the Barrs brought clones of the species from Japan. These were immediately introduced to commerce and had wide distribution in Great Britain and the United States. The very fact that these plants were imported from Japan made them exotic and desirable. The nursery catalogs published between 1900 and 1930 placed special emphasis on JAPANESE IRISES if they were fortunate enough to have them for sale. The plants referred to were *orientalis* (*sanguinea*) and not just *kaempferi* hybrids or Japanese irises as we call them today. The evidence for the presence of both *sanguinea* and *sibirica* is obvious in various characteristics of the garden hybrids but for America and England the available records show more evidence of the use of *sanguinea*. Beyond this, it seems psychologically more likely that the common central European *sibirica* was less likely to be favored for use in gardens than the more showy and romantic

orientalis.

In any case the relatively few clones that were brought into cultivation were planted together in many gardens. Some few purposeful crosses were made between them and then the Siberians were turned back to their own devices for a period of about forty years. Within this period some few were introduced to commerce, usually the results of chance pollinations and, as I have become convinced, the result most frequently of self-pollination.

It was about 1951 that an increased interest in experimentation with diploid irises caused me to begin to use the Siberian hybrids then growing in my garden. As mentioned earlier, I first determined that I could control such crosses and I then went on to self and to cross a number of these plants. Among the crosses made was one in which I combined GATINEAU X CAEZAR'S BROTHER. That is to say, I used plants that were purchased under those labels. This comment is necessary because I have become convinced that there are more clones than one of each of these plants. (note the earlier comment on ROYAL ENSIGN) But this cross brought surprise. Instead of intermediate things that looked much like their parents, I got big, strong, handsome plants with big beautiful flowers. They appeared not in one or two exceptions, but in whole lines of them. I still grow those that I selected for further study and they are still more handsome than a majority of the Siberians in commerce or that I see growing in mixed borders of flowers. Crosses between these plants and between some few others have given me hundreds of improved Siberians.

The explanation for these results should be fairly evident by now. Strong inbred lines were waiting there to be combined. Combined, they gave their progeny the vigor of heterosis⁹ as well as that of heterozygosis.¹⁰

The same conditions that tend toward the production of strong inbred lines also offer us an explanation for the absence of improved forms of Siberians, except in very small numbers, for a period of forty years. The strong inclination for self-pollination and the fact that the resulting seeds were planted either by accident or on purpose, guaranteed the growth of a mass of seedlings very similar to their parents.

That changes in the breeding processes as a result of the interference of either the scientific investigator or of social practices can bring disadvantage as well as advantage to a species is an accepted fact. Applied to the Siberian irises, the development of many new and improved forms is not the whole story. As I have combined some of the handsome new things I now have in my garden the resulting progenies have shown wide variability. Along with still other improved forms, I have obtained some very bad forms. One of these is exhibited by the plants that carry what I have called flowers with spatulate falls.¹¹

The appearance of variability under the conditions just described supplies a convenient further link in the logic for the theory that I am advancing here—the theory that as a result of a strong tendency to self-pollinate, Siberian irises have inbred to produce many vigorous lines quite similar in appearance to each other. Many of these lines will also be genetically like each other. So long as selfing is the chief process of pollination within the inbred lines and even when cross-pollination occurs between genetically similar inbred lines, one may expect progeny that show strong resemblance to their parents.

But when two inbred, but not closely related, lines are crossed the result may be—as it was in my GATINEAU X CAEZAR'S BROTHER cross—large vigorous progeny that are quite similar to each other in appearance but quite different from their parents. It is when crosses are made between these plants

that wide ranging variability appears, including some forms that are highly undesirable. These results are like those obtained when the seed on the big uniform ears of hybrid corn is planted. Variability and the loss of hybrid vigor is an immediate result. To have the advantages of hybrid corn, the inbred lines must be continued so that they may be crossed to obtain hybrid vigor.

For the further and continuing improvement of garden Siberians in line with the theory being advanced here, the program is relatively simple to state, though not necessarily easy to accomplish. One step is to search out, by making controlled crosses, the inbred combinations that nick. (i.e. that produce progeny with obvious hybrid vigor). Once such clones are located they should be preserved with care since, as has been suggested, all Siberians under a given name are not necessarily the same plant. A second technique involves selfing the plants that are located by the process just described. This can bring two advantages. It can further the development of vigorous inbred lines and it can help us to locate the hidden aesthetic characteristics that, though neutral in survival value, may be important to the improvement in the appearance of garden plants. Having small or no survival value, the color or shape of an iris flower can be significant for garden beauty.

In summary, the theory advanced in explanation of the appearance in the last few years of many new and improved Siberians, is that nature has been in the game of producing vigorous inbred lines of at least one series of irises, Series Sibirica, by means of the process of selfing. The genetic results of this process has resulted in the development of many new and improved forms of garden Siberians when the inbred lines were crossed. With some care to preserve these inbred lines, iris hybridizers should be able to maintain the stock that has the potentiality for the further production of many handsome new Siberians for the pleasure of those gardeners who particularly enjoy them.

References and Footnotes

1. McGarvey, Wm., New York State and siberian irises, a discussion of the regionality of certain genetics studies, *Bulletin of the Empire State Iris Society*, Vol. 13-2, Aug. 1966
2. Royal Ensign, 1950; White Swirl 1957; Violet Flare 1959; Velvet Night 1959
3. Siberians registered by McGarvey: Nellie E. 1963; Super-Ego 1965; Id 1965; Dewful 1965; Ego 1965; Blue Burn 1965; King's Forrest 1965; Foretell 1969; Earthshine 1969; Wing on Wing 1969; Pink Snowtop 1969; Pink Haze 1969; Tempertantrum; Forrest Scion 1970
4. All of the McGarvey Siberians in commerce for two years have received HM awards, Ego and Super-Ego were Judges Choice in 1968 and runner-up to the Morgan Award winner in 1969
5. Direct statement by Fred Cassebeer to McGarvey in 1958. Made in the Cassebeer garden.
6. McGarvey 1966, p 61
7. McGarvey, Wm., Section of the chapter on Siberian Irises in book by Harry Randall, *Irises*, B.T. Batsford Ltd London 1969, pp 51-53
8. Dykes, W.R., *The Genus Iris*, Cambridge University Press, 1913 pp 20-26
9. Heterosis: The individual possessing this characteristic has genes for vigor from both parents. The mule is the classic example.
10. Heterozygosis: The individual possessing this characteristic has one gene of a pair different from the other. There is evidence to support the idea that certain genes produce greater vigor when the two genes of a pair differ than when they are both alike or homozygous.
11. McGarvey, Wm., Linked genes in the siberian iris—a report of a phenotypic evidence for linkage, the spatulate fall; *The Siberian Iris, Bulletin of the Siberian Iris Society*; Volume 2-8, 1968

See Inside Front Cover—New Book
**THE HANDBOOK FOR AMERICAN IRIS
 SOCIETY MEMBERS AND OFFICERS**

IN MEMORIAM

Ferris Gaskill

Ferris Gaskill, who did no serious hybridizing until he retired in 1958, produced twelve introduced irises which have won a considerable series of awards. He learned his genetics from his father, who was an authority whom many important people stopped to see to discuss genetics, breeding and exhibits. His early professional work was in automotive engineering, and friends were enthralled at his telling of those days. In 1928 he left the automotive field to become a production manager, from which position he retired. When he and Margaret established their first home and garden in 1920, they obtained a few pallidas and variegatas. When he retired, he started an iris hybridizing program in earnest, and achieved some notable successes. Such names as MIDWEST MORNING, ROBIN REDBREAST, INTEGRITY, CANARY CADENCE, ROMAN VILLA, THREE GRACES, FIFTY GRAND, are familiar to all iris enthusiasts, and from letters this editor received, we gather that LADY BARRINGTON, named for his beloved Margaret, was his favorite.

Ferris Gaskill died April 18, 1971. He will be missed by all of those who love the beautiful irises he created.

Lena Freudenburg

Mrs. Lena Freudenburg, ardent iris lover and hybridizer for nearly thirty years, departed this life October 6, 1970, following a lingering illness. She began hybridizing in 1942, and introduced forty-one irises. The first six introductions were named for her grandchildren.

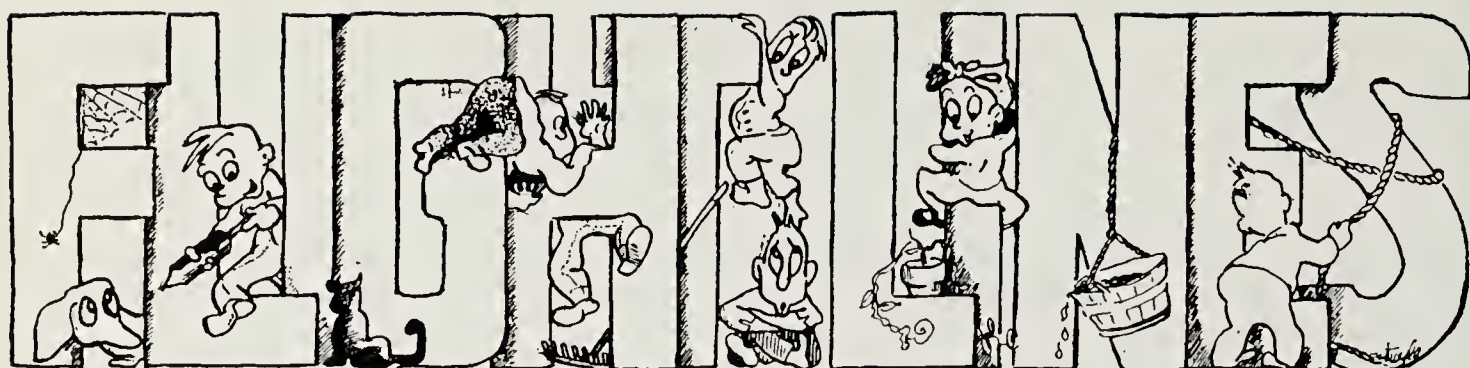
What started as a hobby in 1942 mushroomed into a thriving little business—the Freudenburg Iris Garden. She grew between 1500 and 2000 named varieties, always including the latest iris introductions from all over the nation.

She has left a heritage of beautiful irises, her own introductions, which are treasured by family and friends. She is survived by her husband, Walter, a son Arland, a daughter, Adelaide (Mrs. Alvin Scheve), six grandchildren and six great-grandchildren.



Larry Mains

To his many friends the death of Larry Mains on March 23, 1971 was a deep sadness. Larry Mains joined AIS in 1951, served as RVP and was appointed AIS Senior Judge this year. All the societies with which he was associated will miss him greatly. We extend heartfelt sympathy to relatives and friends.



Mr. Julius Wadekamper, Editor

HOW TO JOIN A ROBIN

All AIS members are urged to take advantage of our main line of membership communication. Select the topic that interests you and send your application directly to the chairman. It will help us to place you if you will tell us something of your garden, your experience with irises, and about yourself. Nearly 300 robins in 25 different topics are available.

General Chairman Mrs. Meredith Christlieb, RFD 1, Severy, Kan. 67137

Irises in General (great for Beginners) Mrs. L. S. Legner, Box 225, White Fence Acres, Rochester, Ill. 62563

Tall Bearded:

International Robins: Miss Jean Ralls, 300 East Fifth St., Edmond, Okla. 73034

Hybridizing Robins (Advanced, Average, Beginner): Dolores Hoburg, RD 3, Cedar Run Road, Allison Park, Pa. 15101

Smaller Bearded Irises (includes Medians in General, Median Hybridizing, special rounds for MDB, SDB, MTB, BB, and Aril-medians). Mr. Albert Ellis, 19 McClure Ave., Brantford, Ontario Canada

Aril-Arildred Irises: Mrs. Joseph E. Terrill, R 1, Burlingame, Kan. 66413

Artistic Division (Arts-Crafts, Designer-Arrangers, Antiques-Artifacts Collecting): Mrs. Merrill Johnson, 2275 Kensington Ave., Salt Lake City, Utah 84108

Beardless Irises (Spuria, Siberian, Japanese, Species & Natives, Japanese, Louisiana) Mrs. Alan Reid, 17225 McKenzie Hwy., Rte #2, Springfield, Oregon 97477

Historical Mrs. Harriet Segesseman, 330 Crescent Drive, Franklin Lanes, N.J. 07417

Regional Robins: Your Region Robin Rep or Mrs. Hoyt Smith, 138 Ridge Rd., Little Rock, Ark. 72207

Reblooming Irises: Edwin Rundlett, 1 Fairview Ave., Staten Island, N. Y. 10314

Teens and Twenties: Iris Smith, Box 127, Hitchcock, Oklahoma 73774

From the Flight Lines Editor: Greetings.

For the time being I will be your FL editor. I confess right now that I do not have a great gift for writing. I therefore will depend heavily on reporters for good reports. I would like to suggest that reporters excerpting the Robins type or write double space. For a guideline I would suggest direct and concise

reporting on ideas that seem to have merit for publication. Be sure to include the town and state of the person quoted. Direct quotes are not always necessary; sometimes the material fits together with other material if only the idea is used.

Mrs. Arthur (Gerry) Smith of Rich Hill, Mo., has written and is continuing to revise an excellent history of the Robin Recollections from Region 18. The Iris Society of Minnesota has had the first draft of Gerry's work printed. Region 18 has a very active Robin program, with ten regional robins and 93 members. Regional Robin programs are interwoven with the national programs. Gerry did an excellent job in pointing out this relationship and her "history" has value both regionally and nationally. The scope, usefulness and fun of Robins permeates Gerry's narrative. It is replete with history of Region 18 and of AIS history.

Tom Ford (Va.) has found that cutting iris leaves back in the fall saves him a lot of trouble and work the following spring, and he believes it helps prevent leaf spot. Holly Hollingsworth (Colo.) reports that the iris borer will not live there. Joseph Mertzweiller (La.) reports fabulous success in control of borers with Cygon. This is a systemic. He used 2 oz. Cygon Concentrate (2E) to 3 gallons of water, and made sure some of the solution got to the base of each plant. "Results were dramatic."

Eddie Jaeger (Utah) mixes gypsum in the soil that is placed around each newly planted iris or "hem," as a rot preventive. He also snaps off the bloomstalk as soon as possible because the stalk has a tendency to fill with water which goes back to the rhizome and may start rot.

Dr. R. W. Wilder (Ia.) reports that the earlier irises are planted the greater the increase and that plants go into winter better. For example, plants set in July gave four to five increases, while those set in August produced only two. He also reports that he is sold on summer mulching with wood chips. C. O. Box (Mississippi State University) also finds, in the B. Y. Morrison Research Project, a significant difference in the number of fans on irises planted in August over those planted at a later date.

About spurias, Mr. and Mrs. Bernard Hamner find that a light dressing of superphosphate, late fall and early spring, a top dressing of dairy manure each winter and plenty of water during the growing season is the formula to produce top quality spurias in California.

Gerry Smith (Mo.) tells about cutting out both top and bottom of tin cans, crimping the bottom with pliers, reinserting the bottom, and setting the seedling in the can filled with the planting medium. When the time comes to set out the seedlings, push the bottoms up so the plant and soil is pushed out of the container. If you wish, you can straighten out the crimping, remove the bottom, push the soil and plant partially out of the can, and thus you have protection against cutworms and the can continues to act as a reservoir.

Frank Foley (Ia.) advises that when you get Japanese irises to leave them in the plastic bag, and add a little peat moss, and that when you see the new white roots, plant and shade them for several weeks and give them plenty of water until they show new growth.

Ila Nunn (Texas) reports using Terraclor for mustard seed fungus with spurias and leaf spot with bearded irises.

Mrs. William Leix (Mich.) reports buds turning brown and finding small worms inside. Ruby Williams (Miss.) reports the same thing in Japanese iris seed pods. Any experiences that can be relayed?

Bob Mueller (N.J.) also reports perfect control of borers with Cygon. This

was his experience in his garden and in a friend's garden.

Another borer remedy. Ophelia Straw (Pa.) drops a few moth ball crystals on the leaf where borers are working, and reports that even after they have entered the rhizome a few flakes forced into the hole will kill them. She says this is not practical for a large garden, but where plants can be inspected daily, it keeps the borer population down.

Lorena Reid (Ore.) uses Diazinim as an insecticide, with fair success. She also says that when she ships plants some distance in hot weather, she frequently rinses the washed plants with a solution of Terraclor before wrapping, to help retard the mold and/or rot that sometimes occurs in enclosed, warm, dark places.

Gerry Smith's formula for re-doing a new bed. Use one-third old rotted sawdust and two-thirds soil, tilled and tilled. Let it pack or pack it. As you set a new iris plant, dig a hole about a foot deep, put in a generous scoop of well-rotted manure, refill the hole about three inches, and pack. Set the iris and cover with about two inches of soil. The roots go down to the manure, but it's not near the rhizome.

Some variety comments. Judith McLeod (N.C.) says that BLACK BART is the blackest she has seen, that THRUWAY and CUP RACE are good performing whites, and a well-grown clump of CHRISTMAS TIME is hard to beat. "BABBLING BROOK is a different blue but about as blue as one can get. It has texture veining on the falls which enhance rather than detract from its beauty. MINNESOTA GLITTERS is a different salmony pink overlaid with sparkles that looked like someone had spilled some glitter one uses to decorate Christmas packages over it." Barbara Whitehouse (Mass.) likes CARMEL SUNDAE with its different color of light brown and cream. FLAME AND SAND in its mauve brown is another favorite of hers. She reports that LAKE MATTAWA, an arilbred, is lovely in light blue with medium blue speckles and beard, and that SPARKLING ROSE, a Siberian, rose-red blend, was liked by many.

Bonnie Bowers (Calif.) reports that ANGEL UNAWARES differs from FLIGHT OF ANGELS in that it has a slight pink flush at the base of the foliage.

Connie Russell (Mass.), regarding NEMIS mail auction: "We've mailed out over 60 packages and taken in \$1200. The greatest demand was for the species offered by Dr. Randolph."

Some about species. Lorena Reid (Ore.) reports pretty fair luck doing Cal-Sibe crosses and crossing some of the 40-chromosome Siberian species and hybrids with 28-chromosome varieties and using YELLOW COURT and YELLOW APRICOT, the two English (Kitton) varieties said to be a cross involving ERIC THE RED and *I. forrestii*. She also says that plans are under way for a species display garden, principally Oregon and Washington natives, at the 1972 national convention. Ila Nunn (Texas) inquires if anyone knows a source of Trimeza? She reports that she never will forget the thrill of seeing *I. missouriensis* in an ice-blue shimmer covering the high mountains in northeastern New Mexico. Grace Carter reports on a strange hybrid which showed up in her iris rows last year, and this year she decided it must be a bee cross of a bearded iris on longipetalae. It is growing beside a longipetalae, as though dropped out of the pod. The foliage is narrower than bearded, and wider than longipetalae; the color is reddish and the flower is a freaky misshaped mass. She hasn't decided what to do with it other than grow it a while and watch it. Bonnie Bowers (Calif.) reports a clump of *I. susiana* with seven stalks.

On arils and arilbreds, from John Odstrell (Texas): "A subject of interest to

me is the dormancy of arilbred irises. In ECH CHAMS HARRA ($\frac{3}{4}$), dormancy occurs; however, the rhizome remains firm. The rhizome looks somewhat like an advanced generation Mohr, sort of rounded but much like a TB rhizome. In KALIFA FATIMA, dormancy also occurs; however the rhizome (it looks almost bulbous) gets sort of spongy. BLUE GATE, whose rhizome looks TB, goes semi-dormant and loses all of its leaves, but grows underground. ECH CHAMS HARRA and KALIFA FATIMA both have fair root systems; BLUE GATE's root system is better. LOUD MOUTH is another arilbred ($\frac{1}{2}$) but here we find a different situation. It has a very good root system and its rhizome looks quite TB. An added feature is that it produces new growth just about every time it loses an outer leaf. What I'm getting at is that it seems to me that the better the root system, the less the plant is apt to go dormant."

Photography: Janet McLeod (N.C.) does not use filters to get true blue color in her slides. The trick is to take pictures fairly early in the morning, and if that is not possible, cast a shadow over the bloom and then snap.

Shows: Darrel Rose (Mich.) uses milk bottles with paper towels to secure stems at top to keep them from swinging around when stopping and starting during transportation. Blooms are prepared the night before, and the ones already open are kept in the basement where it is cool. Flowers to be forced are put under a pull down lamp which produces quite a bit of heat. Also heat is turned up.

From Earl Stanley (Ill.). "If you want yellows, pick out good browns or reds and cross them with pinks, unless your brown or red carries pink as a recessive. Pinks X JUNGLE FIRES produced yellows. Greens came from white X CORDOVAN. A lot of breeders crossed reds X white and got yellows with red streaks, but they can be used back with reds."

Dick Sloan (Ill.) planted his iris seeds in soil in clay pots, and soaked overnight. The pots were placed in plastic bags and stored in the garage where they were subject to freezing and thawing. The plastic bags keep the soil dampened at all times. In the spring the pots are removed from the bags and placed in the garden for rain and hand watering to keep moist.

About germination: Leda Christlieb (Ks.) tried an experiment. She was soaking some aril, arilbred, SDB and TB seeds overnight. She saved the brownish water and soaked $\frac{1}{2}$ tsp. of Vesper seeds overnight in this liquid. These and another $\frac{1}{2}$ tsp. of Vesper seeds were planted as usual ($\frac{1}{4}$ - $\frac{1}{2}$ " deep in garden soil). The pots were placed side by side in the greenhouse, but the soaked seeds were watered with the brownish "soaking" water that had been drained from the seeds. These germinated only one-sixth as well as the ones planted as usual. This proved to her that there was a germination inhibitor in the seedcoats of the soaked seeds. She also feels that there is merit in planting TB seeds two inches deep where moisture is more consistent and the seedlings resist dry weather better their first summer.

Lorena Reid (Ore.) saves pollen in matchboxes for use when it becomes powdery.

Border Bearded Irises: These are irises that are from 15-28" tall, with leaves erect, and shorter than the bloomstalk. The flowers are larger than the MTBs but smaller, preferably, to TBs. They bloom at the same time as TBs. Maybelle Wright (Minn.) has promising BB seedlings from MISS RUFFLES X 65-34 (Rippling Waters x Dr. Wanlass). Elsa Hash likes BBs in Nebraska because of the winds at bloom time. Incidentally, Maybelle Wright uses a hotbed with an electric cable to get early germination, a necessity in the North.

Pat Adams (Wash.) dug a small section of BRIGHT WHITE and brought it inside on February 16, and it began blooming on March 9, and had many blooms the same size, color and substance as outside. One way to extend the iris season. Wynnaline Stinson (Tex.) writes the dwarfs BABY SNOWFLAKE and BRIGHT EYES were fall bloomers for her. Another way to extend the season.

About rebloomers: There are twelve Reblooming Robins. Region IV and the Southern California Iris Society had reblooming shows last year. In both cases RED POLISH won Queen of Show. We are sure there was another show, but we cannot locate it in the notes. For those who are interested, there is a Rebloomer Test Garden in Fort Worth, Texas, with Clarence Denman in charge.

Ben Watson writes: "Based on my experience with bearded irises in Florida, I believe there is a great possibility of breeding new strains that will love it down here, and everyone of them had better be something of a rebloomer, or it will never bloom in this land of perpetual sunshine."

Interesting item gleaned from Edwin Rundlett: "Edwin May Peale pointed out in his book *North With The Spring* that spring advances in the United States at the rate of 15 miles a day and ascends mountainsides at the rate of 100 feet a day."

Bonnie Bowers (Calif.): "I believe a seedling which blooms 9-12 months after planting will be one to watch for a rebloomer." Gerry Smith (Mo.) says that EMMA LOUISA is the most exciting thing she has seen in a rebloomer. We are impressed with the large number of rebloomers in the garden of Charles Applegate, Perrysville, Ohio, including such irises as DRUMMER BOY, CORAL KISSED and JET BLACK.

Mrs. W. D. Brady (Tex.) has found that almost any of the rebloomers make nice potted plants for winter display indoors. Another way to extend the iris season.

Again the comment that Dr. G. Percy Brown's SUMMER WHITEWINGS will bloom in Florida. And from Dr. Brown, this sage advice: "I should think that along the river would be a good place for growing reblooming irises. A slope toward the river has air drainage. The cold air goes downhill. Plenty of manure down a foot, and commercial fertilizer, too, and fresh new soil will help. Sun all day—no trees, bushes or other plants nearby to grab the fertilizer. Water weekly in dry weather."

Anne Allen (Md.): I am looking for a list of remontant parents that give best results with outcrosses. I really think the future of reblooming irises lies in these outcrosses. . . . Crossing dependable remontants with irises of good quality in other respects should make lots of people sit up and take notice, as they did in the meetings where Lloyd Zurbrigg showed some of the 'new breed' of rebloomer!"

From Carol Jensen (Ill.): "My 'Head Start' iris program has finally done what I planned—bloom in 12 months from pollen to maiden bloom. Actually, it was 11½ months, from a cross made in the fall."

There are four Arts and Crafts Robins and two Flower Arrangers Robins flying, and it is clear that these girls are having a grand time, from exchanging ideas and slides to winning sweepstakes and giving programs, to studying show schedules and learning to make distinctive containers. Gretchen Smith (Idaho) made a set of 100 slides using ordinary garden flowers as opposed to the exotics to follow a period theme from oriental through the different periods, ending up with the abstract. Sounds like the kind of program that would be interesting to a lot of clubs. Mildred Johnson (Utah) tells how well the Siberian iris COOL

SPRING dries and how well it retains its color. Clara Puett (Ks.) writes of an interesting workshop in which the members are making containers from tile grout and coloring them to match some of the color of the arrangement.

From New Zealand and Australia came many comments on medians. Barry Blyth (Aust.) comments that QUAIL was everyone's favorite, and gave a list of the other popular ones: REGARDS, RED HEART, PAMELA ANN, ZING (what a show), SHINE BOY, SO FAIR, MOONBLAZE, VELVET TOUCH, HEART'S CONTENT, CHERRY GARDEN, DESERT HAZE, APRIL FLIRT, ANGEL EYES. Among the IBs ORIENTAL BABY and JUNGLE SHADOWS stood out, followed closely by LITTLE BIT BLUE.

Several comments on ILA NUNN as a superior Louisiana iris, and in the spuria Robins there was mention of these varieties as favorites: DAWN CANDLE, INTENSITY, MINNEOPA, FROST, PURPLE KNIGHT, BARITONE, DARK AND HANDSOME and HIGHLINE LAVENDER. Also FIREPLACE. Bryce Phenis is of the opinion that the COUNTERPOINT line is a good place to start in spuria breeding.

Reading the excerpts of the robin letter sent in by the reporters is an education in irises, and I am struck by the point that many of our members have experiences that are of interest and value to AIS Bulletin readers. Keep them coming.

"Would you look at this one?" The sunlight brought out different and unusual colorings as cameras clicked, a few conventioners gathered, and a new Robin was "hatched" in the garden of Mr. and Mrs. Jim Fry. Mother Robin Leda Christlieb jotted down names while titles for the new Robin were suggested. "Oddies", "Odd Balls", "Double Uglies", "Wierdo" were hilariously suggested . . . all had a certain fascination, and the search for novelty irises that might appeal continued and served as a bond to long-time Robin friends newly-met at the Wichita Convention.

IRIS CHRONICLES

The following list of the *Iris Chronicle* represents an amazing amount of research into the history and lore of irises and the "greats" who have worked with irises. The price of each is seventy-five cents, with the exception of the one entitled *David F. Hall*, which is one dollar. You may order from Harriet Segessemann, 380 Crescent Drive, Franklin Lakes, New Jersey 07417.

The Historical Robin members deserve a hearty round of applause for these historical chronicles.

- | | |
|------------------------------------------------|---------------------------------------|
| 1. Historical Irises. | 13. Bertrand H. Farr. Irises. |
| 2. W. J. Caparne and list of Mitchell parents. | 14. Willis E. Fryer. Irises. |
| 3. Sir Michael Foster. | 15. Orpington Irises. |
| 4. Millet & Sons. Irises. | 16. Violet Insole. Irises. |
| 5. Vilmorin-Andrieux & Co. Irises. | 17. Charles W. Wing. Old Iris Poetry. |
| 6. Goos & Koenemann. Irises. | 18. Amos Perry. Irises. |
| 7. Barr and Sons. Irises. | 19. Louisa F. Pesel. Irises. |
| 8. W. R. and Katherine Dykes. Irises. | 20. B. Y. Morrison. |
| 9. Cayeux Irises. | 21. <i>I. albicans</i> . |
| 10. Lemon Irises. | 22. <i>I. florentina</i> . |
| 11. Williamson Irises. | 23. Iris in art, perfume, medicine. |
| 12. Grace Sturtevant. | 24. Sir Arthur F. Hoyt. |
| | 25. David F. Hall. |



Thomas Ford, Editor

Articles, features and photographs for, by or about irisarians under 19 will be published in this section. Please send your contribution to Youth Views Editor, Mr. Thomas Ford, 12627 Oxon Road, Herndon, Virginia 22070.

YOUTHVIEWS

FREE AND VALUABLE! Any AIS Youth Member who would like a copy of Betty Wood's delightful illustrated booklet "Growing and Hybridizing Bearded Irises" may contact Ann Dasch. The booklet contains the basic mechanics of hybridizing and a goldmine of other information. Mrs. Wood suggests the booklet can be personalized if you cut out a catalogue photo of your favorite variety and glue it on the cover. Write for your copy today.

THE PROS ARE THINKING YOUTH MEMBERS! One commercial iris garden in Virginia offers special bonuses to Youth Members who order. There's an idea that we'd like to see grow! Most garden catalogs and lists mention that adults can join the AIS; this year several also mentioned that Youth Memberships are available. Another garden will send back issues of their illustrated color catalogue to Youth Members who request them, for only the price of the postage. These catalogues are great to have at meetings to use in games and programs.

YOUTH COMMITTEE RECIPE

Ann Dasch

In the beginning, ingredients were scattered sparsely throughout the AIS. We've started to stir and the dough is rising with the yeast of experienced adult irisarians. The national committee is blended of these:

Tom Ford . . . an able young scientist, edits *Bulletin* contributions.

Leah Ralls . . . noted Robin specialist, brings enthusiasm and knowledge of the iris world.

Jayne Ritchie . . . stirs in a rich record with youngsters in her locale.

Maynard Harp . . . adds administrative experience and a genuine concern for young people.

Phil Williams . . . just past the youth age bracket himself, brings a record of leadership and experience rare at any age.

On a Regional level, most of the mixing bowls are out and many have requested recipes. Many have Regional Youth Committee Chairmen to man the spoon, and seasoning comments are pouring in.

Henry Rowlan, RYCC Region 22, submitted an excellent article to their publication, rich with such ideas as the possible initiation of a Youth Achievement Award and Youth Membership Contest there, for which he will

donate rhizome prizes. Young Perry Dyer co-chairs their committee, and RVP Hoyt Smith gives full encouragement.

Region 17's RVP, Lester Brooks, stirred up interest last year when he hosted the local high school's horticulture class for a tour and lecture at his own "Trailridge."

"The Illinois Irisarian," a Region 9 publication, was sprinkled with a tasty article by RYCC Dick Sloan, an invitation to youngsters to attend Judges Training from Ferris Gaskill, and RVP E.H.T. Drake added ". . . let's get Region 9's Youth Program rolling in the right direction."

Jane Hall, Membership Chairman of the Empire State Iris Society in Region 2, advocates adding young members because "... they are so enthusiastic that one can't help being stimulated by them."

In Region 3, RVP Rose Shiner writes, "I strongly believe in starting the youngsters as soon as possible to enjoy our hobby."

Shows across the nation are being enriched by young exhibitors. Leah Ralls states, "Almost all the shows in the Region (22) have youth sections and give good irises as well as ribbons for awards."

Calvin Helsley, RYCC from Region 18, notes that "The Southwest Missouri Iris Society, of which I am president, has a separate artistic division (for youth) with from four to six classes and this year there were more entries in these classes than in adult classes."

There is no doubt that the AIS Youth Program is spiced with the ideas and encouragement of adults across the nation. We will gladly swap recipe ideas, mixing suggestions and seasoning tips. Each Region must add its own flour, the basic ingredient upon which the program depends, interested young members.

When shopping for Youth Members, the recently duplicated Youth Membership Invitation page should prove helpful. Copies have been distributed to each Region, and more will be mailed on request. This page should be an ingredient of every show or meeting membership table and available to any interested youngster. Specific information for Youth Program administrators will be detailed in another publication that is forthcoming.

Meanwhile, keep those cards and letters coming! The Youth Committee would like to help you stir up a batch of young irisarians in your Region. A carefully blended, well-seasoned and tastefully presented Youth Program can benefit everyone throughout the AIS.

MINIS FOR THE MODS

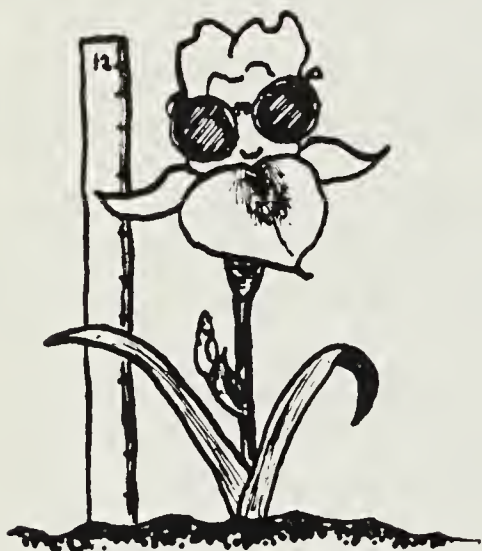
Jerry Barnard

The young people of today are credited with being aware enough to question the current workings of society. The American Iris Society currently places primary emphasis on the tall bearded iris class. Unfortunately, this class of iris is not the best suited one with which young moderns can start a collection. The median group (or miniature forms of bearded iris) would seem to provide the best potential material for a youthful interest. Accordingly, this article will seek to introduce the mini advantages to the mod generation.

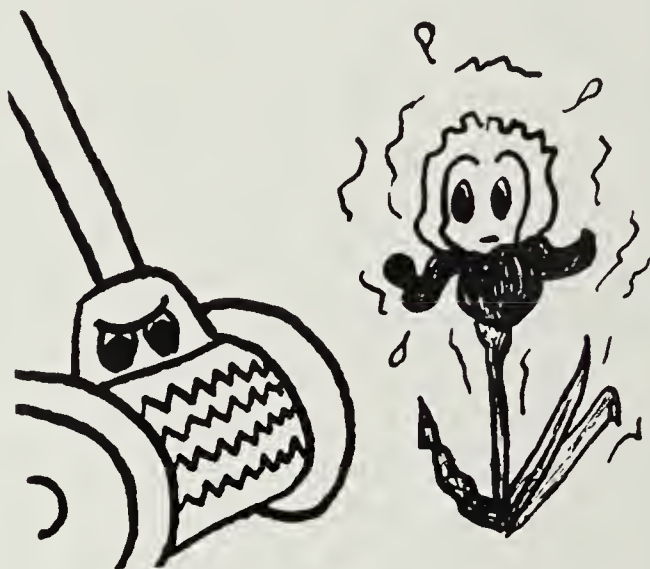
First, it should be noted that there are many types of irises: aril, Dutch, Japanese, Siberian, spuria, Louisiana, the in-between species, *and* the tall bearded median and dwarf forms derived from a complex of bearded species. Yet these specialized classes (excluding the hardier bearded forms) require more individualized care, and present much less variety of form and color than the

bearded ones. Hopefully, the young grower will seek to add these categories after he has gained experience with the standard bearded class.

Second, the tall bearded forms are introduced at prices which the average babysitter or newsboy just cannot afford, whereas the median forms are valued at one-fifth to one-third of that cost. And, being mod, who is going to be content with just the older, already out-of-style plants that have reached a limited budget level? The perfect solution to these material problems of life would be the situation in which the parents are also wild-eyed irisarians, and purchase all the latest iris varieties anyway, but it must be admitted that this would be a rare case, indeed. Consequently, in these days of tight money, the practical viewpoint is of prime importance, even to the would-be irisarian.



Inch for inch, I'm maxi class



Cut, if you must, some old green grass but spare this country "flag!"

Finally, there is the matter of space, population, and environment. Mini's don't take much space, being more conducive to integration with other garden plants, whereas the tall bearded and other types really require plenty of light and room, and even prefer segregation into their own plantings. And, strange enough, some parents, especially mowing fathers or watering mothers, get rather upset when the lawn begins to disappear, and the iris can't be moved or watered. So do your part by bridging the generation gap with medians to keep the iris in bounds, and spare enough of the lawn for your parents to get their exercise, too. Speaking of lawns, one of the major enemies is the innocent seed patch. Here again, the medians are real population control experts, for the wayward hybridizer who can't control his curiosity. Looking at the latest fashion trends, there is plenty to be curious about. Like flares and mini-skirts? The miniature and standard dwarfs have both; being short they are bred to flare outward as the flower is viewed from above, so down-hanging skirts are wasted here. Paisley prints and high flying colors? In the median circles, these are referred to as washes, blends, spot patterns, and even thumbing it! So the modern has plenty to fool around with in the populating field. Environment concerns avoiding any and all sorts of pollution. For the eyes, there is much neater, and better foliage habits among the mini's than almost all other types of iris, as the tall spear foliages get whipped about by the wind and then dried out by the summer heat, so they can get quite unnatural looking. Mini's are also ideal for perking up any rock gardens, where the cacti don't make it.

Now, let us take a brief survey of the different classes into which the medians are divided. There are five basic groups, but due to varying conditions some plants grow differently in various locales, so classifications can be deceiving, and difficult to determine at times. Representative varieties will be described for each class.

Miniature dwarfs are the real Tiny Tims of the iris family. These are typically only a few inches high (plants up to 10 inches high, flowers 2 to 3 inches across) have little if any branching on their bloom stems. A clump forms a compact moss-like growth, which is adorned by an icing of bloom. This group is blessed with its own society branch and publication, the Dwarf Iris Society's *Portfolio*. Among the large numbers of varieties available, some that have ranked high in performance and classification standards are RED GEM, PROMISE, BLACK BABY, CLAIRE, BLUE FROST, FASHION LADY and ANGEL EYES.

The standard dwarfs and all other forms of the medians are revered by another branch of the American Iris Society, the Median Iris Society, and are reviewed in their publications, *The Medianite*. The standard dwarfs are variable in both height and bloom size, but ideal dimensions are roughly 10 to, but not including 15 inches tall, with flowers 3 to 4 inches wide. These are branched somewhat and are the most populous class of the medians, comprising a huge number of varieties. Some of the varieties which usually conform to the proper dimensions are SKY BABY, ORANGE CAPER, REGARDS, KNOTTY PINE, and BLUEBERRY MUFFINS.

Next in line are the intermediates, which range from 15 to, but not including 28 inches in height ideally, and carry flowers of three to four inches in size. These definitely should be branched, though not too widely as they are heavy bloomers. Good representatives of this flowering class would be JUNE PROM, LITTLE SIR ECHO, ARCTIC RUFFLES, MAROON CAPER, CHIT CHAT, and PREAMBLE.

Blooming later, usually in company with the early tall bearded, are the border bearded. These range under 28 inches in height, but not under 15 inches and usually 4 inches or over in the blooms. Branching should be better still in this class. Some of the better representative varieties of this class are TULARE, BLUE MILLER, BOTANY BAY, BAYADERE, and ELFIN SILVER. There is a tendency to overgrow both the intermediates and the borders, so fertilizer should be used cautiously in these classes. It should also be mentioned that there are some problems with certain varieties in maintaining proper proportion in regards to the bloom size.

The final class is a difficult breeding area in iris. These would be the miniature tall bearded, which should ideally present a fully branched tall bearded stalk in miniature (about one-third of normal size). These range in height from 15 to 25 inches generally, but with small flowers of three inches or less. There are not many representatives of this class, as progress has been slow, and consequently some of the oldest are still rated quite high. A distinguishing characteristic of this class are the thin pencil stems and good branching. Representatives of this unusual class are DESERT QUAIL, the newer TOPSY TURVY, PEWEE, WIDGET, BUENITA, and DAINTY DANCER.

Now that all you mods have been introduced to the minis, let's get with it, and start planting!

Let's get our Junior Iris Society started



Youth members of the Southern West Virginia Chapter of Region 4 plant an iris bed at the Nitro Junior High School. Left to right, Paula Brown, Jacki White, Helen Berry, John Wallace, David Newcome, Tom Townson, and Bill Martin. Through the efforts of Maidel Van Horn, Chapter Youth Chairman, they, as well as their Junior Honor Society advisor, Elaine Rawlings, were encouraged to join AIS. All are Junior Honor Society members.



Cynthia Chester in the Youth Division of Horticulture at the Huntsville, Ala., show, with her rosette-winning stalk of FOXFIRE.

Activities Tom Thumb Junior Garden Club, Kansas City, Mo.

Nellie K. Solomon

A Model For Local Clubs And Chapters of Our Junior Members? Some people may be under the impression that our younger generation is not interested in horticulture, but I can prove that they are mistaken. Given some seeds and shown the method of planting, they are in business. This has proved true in our Tom Thumb Junior Garden Club, with a membership of thirteen, ages eight to thirteen.

The club meets monthly and the attendance last year was 100 per cent for four months. Absences occurred only because of vacation trips or illness. The club has a yearbook, officers and chairmen, and is conducted much like an adult club. In January the meeting is confined to program planning. The group chooses its own year's activities, with certain requirements kept in mind and with a list of suggestions offered by the adult leader. There is always much enthusiasm for the planting of seeds to grow more plants, observing Arbor Day, entering flower shows, visiting gardens, parks, the wildlife preserve, the bird sanctuary and making plaques and centerpieces using cones and other dried materials for a convalescent home at Christmas time.

Ecology has proved to be of much concern to them. They have had a tour of the James A. Reed Wildlife Preserve, noting the different methods used for controlling the erosion of soil, the lakes for the growing of fish and the nesting of waterfowl, as well as for providing good fishing.

We have a high school boy, the son of one of our senior garden club

members, working toward the highest conservation award in scouting, who has been most generous in sharing his time and knowledge with our group. He brought a program on conservation, using color movies, charts and a question and answer session. At the close he gave each member a packet of sunflower seed to plant, promising the grower of the largest flower a bird house. Interest ran high and many pictures were taken. At the time of measuring for the prize it proved that there was a tie, so he awarded two bird houses.

In February or March a seed-planting workshop is held. Each member brings an egg carton. The starting medium and a variety of seeds is furnished by the senior club. After planting, instructions are given for care until the plants can be set out into beds. House plants are started from cuttings rooted in water at a later meeting. Reports are proudly given on the progress of the plants. Occasionally a sad report is given, but the trouble is usually easily remedied. The days of the flower shows are busy days, filling out entry tags and placing the exhibits. Winning a ribbon is a great achievement in a youngster's life, but the pleasure of watching the plant grow and caring for it is the greatest reward.

Our juniors are much interested in horticulture and it would be safe to say that most youngsters would be if given the opportunity to become acquainted with the project. The best way to learn is by doing. Why are not more clubs organizing and sponsoring junior garden clubs? There is much satisfaction in working with children, it requires so little time and compares to the planting of a packet of seeds — the reward is great.

TOM FORD AND PHIL WILLIAMS EVALUATE THE AIS YOUTH CHAIRMAN

William T. Bledsoe

AIS members write the president most often when they are angry or unhappy. But I received a letter recently that is so delightfully different, I feel that everybody should have the privilege of knowing what it said.

It came to me from Phil Williams, energetic editor of the Region 7 Newsletter. Keep in mind that Tom Ford and Phil are both young, and bright, and aggressive. At the time, neither had any idea that his opinions or observations would appear in the BULLETIN. Hence, their appraisals are completely candid.

Here is the major portion of the letter just as it was written:

"A letter came from Tom Ford, editor of the YOUTH section of the BULLETIN, and he was elated with Ann Dasch! He had dropped in on a YOUTH meeting in a local chapter in Ann's region. She was having an all day affair. So . . . I quote Tom:

"Ann is just great—the thing that turns me on with her is that she genuinely loves children and working with them. I was over to Timonium yesterday. She was having a meeting of the F. S. Key Chapter Kids—all of them were to come as an iris. One of them came as PIPES OF PAN—he was carrying a frying pan with a pitch pipe scotch-taped inside. One of the girls came carrying her Siamese cat named "Coco" and was holding a sign with the word "RAW"—get it?—RAW-Coco??? (I almost never caught that one . . . stupid me . . . they're brighter than I am). As for the food—well, left up to the kids you can imagine! How does



Left to right: Joyce Garcia; Donald Puett, RVP 18; Jean Johnson; W. T. Bledsoe, Pres. AIS; Carol Ramsey, Program Chairman.



From left to right: George Torrey, Convention Chairman; Mary Lou Bledsoe; Alan Johnson, Pres. Australian Iris Society; Roberta Torrey; Felix Garcia, President Wichita Iris Club; Clara Puett.



From left to right: Glenn Hanson, Hubert Fischer, Irene Nelson, Robert Schreiner.



President Bledsoe Presents Distinguished Service Medal to Dr. Nelson, while Roberta Torrey Looks On.



Mabel Clare Jendel Presents Governor Docking's Proclamation to Dr. Hugo Wall.

grandson's Copperas Cove garden which we had helped plant last fall, there was less than 20% bloom, but we did see a nice stalk of COUNTY FAIR, a delightful light yellow with falls faced a paler tint; a stalk of WINTER OLYMPICS with three branches and terminal; a nice stalk of PACIFIC PANORAMA; the delightful in form and color BUTTERSCOTCH FRILLS (which seemed SDB rather than IB in Texas); and two very floriferous clumps of PIXIE SKIES.

We had a very pleasant visit with Mrs. Doyle Gray of Belton, and with Mr. Gray made a visit to their very lovely garden. But again the iris bloom was sparse.

After checking out the addressing systems of a couple of newspapers, and getting in some fishing, we departed for Conroe, Texas, where we had planted an iris garden the summer before. In an effort to find what it takes to grow bearded irises in the deep South, we had made a carefully prepared bed, with soil conditioners, bushels of leaf mold, ground bark, and fertilizer. We found in the main healthy, vigorous plants that had made considerable increase, but no bloom except on an old dwarf, NEGUS. At least we seem to have learned something of what it takes to make for vigor and increase; but we will have to go for more research in what it takes to produce bloom.

We have tried for several years to get into Louisiana iris territory during bloom season, and this year we were able to make it. We left Conroe early the morning of the 17th, and arrived in time to see the Charles Arny garden before lunch and the business meeting. Here the first person we met was Earl Browder, thus making two AIS Board members in attendance.

We missed peak bloom by at least a week because of the early season, but we did see so many flowers that impressed us. On the garden tour we had as guide Mr. Arny's nephew, eleven year old Clyde Redmond, and did he know his Louisiana irises! He explained that most of Mr. Arny's introductions were named for relatives and friends.

Just inside the gate we first were impressed with a very fine clump of MRS. MAC, and we were delighted with the clear clean yellow of G. W. HOLLEYMAN, and the vigorous and profuse bloom of MARIE CAILLET. (Incidentally, we had several chances to visit with the lady for whom this iris is named, and both iris and lady have charm and personality). KATHERINE CORNAY was beautiful, proving its right to the Debaillon Award. (In the grandson's garden in Conroe, a single rhizome planted late last fall sent up fifteen gorgeous flowers) There was a true blue seedling which attracted attention because of the purity of blue, and MYRA ARNY was putting on quite a display.

In the show we were intrigued by a Mertzweiller seedling which indeed is something different. There was considerable debate over whether to call it a bitone or a bicolor. We finally called it a blend—5rY/5yR. A bronzy orange Arny seedling and a sort of rose-pink by Mertzweiller were very good, and we were attracted to a crisp, clean, cool light yellow seedling, but we did not get the name of the hybridizer. But there were so many good seedlings that it hardly behooves an amateur to tag which were good; to us they nearly all looked good enough for introduction. We rapidly discovered that in a Louisiana iris show the seedling section is the feature.

We saw BRAMBLE QUEEN for the first time in the show, and were impressed by its beauty; and we were interested in seeing WHEELHORSE because of what we had been told of its breeding potential. We saw so many in the garden and the show that we would like to grow that it seems impossible to

list all of them, but at least these deserve mention: AUNTIE, CHARLIE'S MICHELE, DENEb (a real eye-catcher), PINK HONEY, BARBARA ELAINE TAYLOR, QUEEN O' QUEENS, KISSIE, CHUCK, MULBERRY MOUSSE, GYPSY MOON, CAPTAIN BILL, DIXIE DEB.

The nearly one hundred Louisiana irisarians who had gathered for the meeting are a dedicated and enthusiastic group, and we had a chance to meet so many who had been just names to us: Barbara Nelson, "Rusty" Gaidry, Faenelia Hicks, Dr. W. E. Fletcher (who presided over the business meeting), Joe Mertzweiller, Marvin Granger, Aline Arceneaux, Mr. and Mrs. Stayton Nunn, Tom Benson, Calvin Blue, William Livingston, and so many others whose names we lost in the maze of introductions. These people are going places because of their dedication to a cause. They have the advantage of being unfettered by preconceived notions as to the ideal form; after all, true art expresses itself beautifully in manifold forms.

Just before we left we met Walter DuPree III, who was featured in a previous issue of the *Bulletin*. This time he had on display another educational exhibit. This one had won first in state-wide competition.

We started west to Texas with that deep inner feeling of satisfaction that comes with having spent a very pleasant and worthwhile day.

After working with Kay for several days on AIS matters, and checking some newspaper plants, and watching Drew in a tennis match, we left to spend another day in Copperas Cove. We were overwhelmed at the result of the rain to the garden there. There now was indication of 40-45% bloom, and such varieties as WINTER OLYMPICS, PACIFIC PANORAMA (with four branches and terminal, and thirteen buds), ILLINI GOLD, LILAC CHAMPAGNE and BABBLING BROOK were sporting show type stalks.

Off to the Region 17 meeting at Wichita Falls. The first garden we visited was that of Z. G. Benson, and we were swept off our feet by the perfection of care this garden showed. LORD BALTIMORE was breathtaking in its perfection, and we were greatly impressed with PATRICIA CRAIG, EVER AND EVER and Mr. Benson's creation, FIESTA MOON. We liked very much his SDB seedling, L 5-19-9, with three buds, a yellow blend, darker on falls, and very marked brown shoulders. We also liked his SB-31-7, with full yellow standards and red-violet falls, with a yellow blend streak down the center. His L 5-23-6 is a blend of yellow and violet, with a violet infusion or glow, especially at the base of the standards. It is unfortunate that this entire garden must be moved because of a new highway.

In the Culwell garden, CATHEDRAL BELLS, ORCHID JEWEL and ORANGE PAGODA were putting on a real show, and the roses, especially the beautiful Queen Elizabeth, were vieing with the irises. This is a perfectly tailored, well-kept back yard garden, with nice wavy borders, and accented with many flowers, including the chrysanthemums and the Ramona clematis. Many sweepstakes awards have come to this garden in flower shows.

A visit to the Guy Rogers' garden is a visit to see the greats in irisdom. We marveled at the perfection of the big clump of MULBERRY WINE. BLUE FORMAL and LADY ROGERS (very befittingly) were epitomes of perfection. The Judge and Mrs. Rogers are superb gardeners, and we took a close look at the border edgings and those two big compost piles. The Rogers use garden ecology as nature planned it.

The next garden was the Slaughter garden, Mrs. Slaughter of rose fame. But as we looked at the wealth of bloom on the irises and the tall and vigorous

plants, we made a mental note that that she easily could establish herself in the forefront in the field of irises. Those irises, tall and stately, stretched out perhaps a hundred feet along the board fence, in a soul-satisfying panorama of color.

Off to the Brooks' garden, and this was something. Sixty-four acres, with little gardens planted appropriately here and there, and all kinds of scenery. I could read all over Irene that this is what she wants. She clambered all over the place to see, down the creek bank to the Louisiana irises near the pond, and along the creek ravine to the little garden spots planted along the way. It is a monumental opportunity for Lester Brooks to return in retirement to his first love, that of landscape architect, and both Les and Mrs. Brooks are actively and enthusiastically interested in the project.

After a box lunch in the Brooks' yard, we wandered about while the Region 17 Board was holding its meeting, and later had a personally conducted tour by Les to see his seedlings and his projects. We then went to the Dean Miller garden. The Miller garden had suffered from the long drowth, and as water levels had decreased, the salt content had become greater. Nevertheless, they had some unusual bloom: CHARMAINE, MISS ILLINI, CLOUD CAPERS and SPARKLING WATERS. We enjoyed their historical gardens and the new greenhouse, and that two-story playhouse in the back yard is sheer genius. Dean is a high school counselor, and from long practice in selecting teachers, we would rate him as superb; he seemed to fit the role. The charming Mrs. Miller seemed to fit perfectly the teacher's wife, and if we were still at the helm at Central, we would have offered them a job on the spot.

We were running behind the crowd, and had to hurry through the rest of the day. Mrs. McDonal was not at home, but what appeared to be several hundred varieties in a side garden were about at the peak of bloom, and presented a wide variety of pleasing color. A quick look was all that we could take, but the garden was very good.

The last stop for the day was at the Joe Singers' garden. It is a small backyard garden, with an amazing variety of plants growing in such a small area, and several of the irises were very good indeed. The Singers are enthusiastic young people (from the vantage point of a grandfather), and it was very pleasant to visit with them. And the house, with walls covered with fifteen year's search for antiques, was something to see.

After thanking Les Brooks for piloting the Dodge around for us (we probably would never have found some of the places on time), we departed for the banquet. It was a pleasant affair, well attended. The highlight was the

LIFE MEMBERS

At the Region 17 meeting, Leon Wolford (right), past RVP, in behalf of Region 17, presents to Mr. and Mrs. L. E. Brooks life memberships to the American Iris Society in appreciation of the work these two people have done in behalf of Region 17.



presentation to Mr. and Mrs. Brooks of life memberships in the American Iris Society, and it seemed so very fitting that these two fine people should be so honored. Z. G. Benson won both awards of the Region, for the best clump on tour, FIESTA MOON, and for the best seedling.

Early the next morning to what changed from coffee to a breakfast with the Rogers. It always is pleasant to visit with Judge and "Lady" Rogers, and the girls enlivened the breakfast session with a rapid fire discussion of the youth movement. On to the Z. G. Benson garden, where we took another look and saw WICHITA MAID, and then off to Oklahoma City, where we had promised to see the iris show that afternoon.

Imagine four iris shows on successive weekends. This was the second, and there were bloomstalks of high quality everywhere in the hall, and a good crowd in attendance. Among those that were good were GIRL GUIDE (this one captivated us), TULARE, BOTANY BAY, COLORAY, JUNE PROM, PINK REVERIE, PALE CLOUD, PIXIE SKIES, ROSE HARMONY, FRISKY, REGARDS, LAUNCHING PAD, JOLIE, SAUCY SUE, STARBURST, WILD MUSTANG, SILVER PEAK, SIGNATURE, SHEER JOY, RED PRELUDE, PRETTY BUTTERFLY, MISS ILLINI, MARICOPA, MAD MAID, MAJORETTE, HIDDEN MAGIC, INDIGO IMP, JERSEY BEAUTY, LEMON TREE, CRINOLINE, CLOUD CAPERS, CITY OF PORTERVILLE, BAY AREA, APERTIF, FI LEE, and BLUKEETA. And those arilbreds: ESTHER THE QUEEN, KALIFA GULNARE, ENGRAVED, BEIRUT and AASPEN COUNTRY. Cleo Palmer had four or five seedlings that looked very promising.

The next day on the way home we stopped at Eldorado to visit with Helen Graham Reynolds, and see the convention garden. There were some little things in bloom, but most of the things of Helen's we looked forward to seeing, including BOY SCOUT, were not out yet. We never see this garden without recalling that long row of plicatas out of a single seed pod that were out of this world. It must have been some job to select three out of this long row to name. Discovered that Bill is developing into quite a vegetable gardener, and we took home some radishes and asparagus he had grown, for dinner the next evening. It was pleasant to visit with Bill and Helen, and time just went too fast.

Stopped at Topeka to visit with Roy and Mildred Brizendine, and the variety and direction of their crosses were bewildering to me. Roy has done sterling work with arils. It was interesting to see *I. susiana* in bloom. His yellow arilbreds with bold red signals always have captivated me, and now he is working toward brown signals and yellow-green halos. His B-10-67 and its progeny will bear watching. Mildred's work with medians always is fascinating to watch. We will never forget the Kansas City show when ZING burst on the world, and there are those who now say that ZING is going to be the SNOW FLURRY of the SDB world. Her work with arilmeds promises to open vast new horizons in iris color, pattern and form. We very much liked Sam Street's SOUTHERN CLIPPER, and Mildred's seedlings 37-71 (an arilmed), one with a garden name of Funny Face (an MDB with three flowers, opening one after the other), MB 26-69 and MB 29-61. DUPLEX caught our eye. The quality of hybridizing Roy and Mildred do in arils, medians and arilmeds really ought to attract more judges to see what is happening in bold new ventures in hybridizing.

And so off for home. Seventeen pleasant days in seeing irises and visiting with irisarians, meeting old friends and making new ones. Several times I was buttonholed about AIS business, and am always glad to explain as completely and objectively as I can. The business of the Society is the business of the

members, and I like to treat it as such. Home, and the mail bag full again.

I should mention that it was nice to see Helen McCaughey at the Region 17 meeting. It always seems to help when Board members can attend meetings. And I must not forget that very attractive picture in color of the Brooks' garden on the cover of *Todays Family*, and the article in the April issue about irises, written by Anne Pence Davis.

Nice article in the June *Flower and Garden* for the would-be iris grower. It covers nicely preparation of soil, planting and dividing, with very fine pen-and-ink illustrations.

Ed Hubbard (Va.) has done considerable research on the Hogarth curve. He found such terms as "S curve," "reversed curve," "a curve used by flower arrangers," and even "the Sunday pitch of a National League southpaw." In his research, he found that in 1742 William Hogarth, an English artist and engraver, stated "the S curve, the undulating line, is the true line of beauty;" and that in 1754 Thomas Chippendale apparently was the first to use the term Hogarth curve, this in connection with the lines of his furniture. Good work, Ed.

After the convention we decided to take two days to get home in order to see other iris gardens. The first one was the Woodman garden, and it was breath-taking. I could think of only one term that could adequately describe it—A little corner of Heaven. Eloise uses gardening as an art form, and the balances of color, plant forms and scale showed the touch of a true artist. And what stately irises, each selected to add to the harmony of the spot where it was placed. WINTER OLYMPICS stood tall and proud in its area, and each of the others accented its area perfectly. This is a garden that the landscape artist ought to see and study.

Then off to Ralph Stuart's garden. That big clump of NEW MOON with twenty-three flowers open was worth the trip. He had a seedling (S67-19A) that will be a delight to the flower arrangers. Ralph grows them well, and such irises as TRALEE, TAWNY MINK, OVATION, SUNSITE, GOLDEN SENSATION, SAPPHIRE SHORES, AFFECTION, MUSIC HALL, ROBIN REDBREAST, ELLEN MANOR, RUFFLED VALENTINE, GAILY CLAD, FOGGY DEW, HAPPY ENDING, VAUDEVILLE, CHARMED CIRCLE, AZURE GOLD, CRYSTAL BLUE, PINK FRINGE and EPIC were resplendant in color.

We made the trek northwest to the Bob Jeffries garden at Ellsworth, and found the good parson busy in his iris patch this Sunday afternoon. By this time the Wichita pact with the Power Above had expired, and the Kansas winds were back in form. But it is interesting to note the hybridizing experiments of these Kansas gardeners to develop a breed with the substance and strength to take the wind and the heat. We were interested in Bob's 67-11, a well-branched stalk with flowers of good substance, done in full yellow standards and pale red-violet falls, with an infusion of yellow. His 65-14, about an IB, a cool cream bitone, was attractive, and will make a delightful combination with many plants in landscaping. We looked at his rebloomer line, and liked his orange-pink 68-44-5. His 66-44D, a sister seedling, was an attractive pale violet, or violet pink, if you please. The color really called one.

Then off to see George Warner's garden at Junction City. George grows them until they stand up and look you in the eye. We were particularly taken with his 60-65, with garden name Jewell K. To us it is the garden iris the landscape gardener wants. Big, tall, straight stalks with the sense to be spaced far enough apart to avoid crowding, stately. We counted twenty-nine flowers on the clump, and each stalk had two or three blossoms open. There was evidence of plenty of

substance and the bud count was good. For the gardener who is looking for something to accent a spot with other plant material, this big plicata of red-violet on white is something to be looked at. We were impressed with EARLY EDITION, ORIENTAL BABY, SIGNATURE and FINAL TOUCH, and we never before have seen HUMOREQUE with so much bloom.

And the Garden Prayer impressed us.

My Prayer

God teach me to take time to sit in the sun,
To chat with a friend or make a new one,
To open my garden gates so wide that a friend
Or a stranger will come inside.
That the flowers I grow with your help and care
Will always remind me to share and share.
And when I'm privileged to work in your garden above,
Will you pass by with a smile of love
That I may know that you approved my deed,
That I'm not wasting my time with flowers and weeds.

And then we were off to the Mick garden in Topeka. Mr. Mick is linebreeding to develop a strain that has the substance and rigor to take the Kansas winds and weather, and from what we saw we would say that he is on the way. We were particularly impressed with another garden landscape iris, a big full violet that also sent up stalks well enough spaced not to crowd bloom. This is his 99-59. To the landscape gardener this attribute of an iris taking care of room and increase is valuable. As a bonus this iris had a pleasant odor.

We liked his 10-69, with yellow blend standards and falls plicata with brown on white. It was very nicely branched. We also liked the brilliant color of 4-68, a full yellow-orange blend. PINK NUGGET, with pale orange standards and pale orange-yellow falls, was a pleasing color combination, with really good form, heavy substance and a well-branched stalk with very good placement of flowers. And KANSAS STORM, KANSAS SNOW and MY SON were with superlative show stalks.

Then to the Minnick garden in Kansas City. This garden, with its immense number of new and the best of the older, is almost a must for those who want to see and compare. Bob grows them very well, and here is a garden in which one ought to spend a whole day. We found a couple in the Test Garden we liked, and we still are in love with that child of STEPPING OUT, done in red-violet and white, a plicata. Bob's 66-759 looked good, and Evelyn's EM-22 and EM-19 could go places. The trip through the garden was much too hurried, but among the ones that caught our eye were PRECIOUS ONE, FIESTA SUN, MARTINIQUE, POST TIME (a beautiful smooth red), BREAKING DAWN, SAPPHIRE HILLS, REGALAIRE, RUSHING STREAM, HAMMERED GOLD, ELEGANT CHARM, and BANDED BRONZE. There were so many other good ones that we missed in the lack of time to study and appraise. We think it is a fair statement to say if Bob Minnick grows it, it is a good iris.

The last stop was at Allen Harper's garden. His bloom was very late, and we spent more time with his gorgeous peony bloom than we spent with the irises. But we had a pleasant visit with Allen, who is quite a knowledgeable fellow, and bought some garden markers, and departed for home.

Talk about hitting the jackpot. Perry Parrish cut the only two stalks he had of RADIANT BEAM, and entered one in the Oklahoma Iris Society show and the other in the Edmond Iris Club show. Both shows were held on the same day,

and he won Queen of Show with these stalks at both shows.

We promised to judge the Fifteenth Anniversary Lexington (NB) show, so we left Bulletin and ballots behind for a day and a half. Despite the highly variable bloom season, they had a good show, and a very beautiful Queen's Table. The problem got pretty knotty as we got down to the last three for the Queen of the Show, but we finally selected a crisp, starchy substantanced SEAMASTER. But it had plenty of competition from STEPPING OUT, and that LITTLE MARK was something to see. One of the features of the show was a whole table of arilbreds, and that big bloom of SUSIANA MAJOR, in its fourth day, was breathtaking. We took advantage of the opportunity to visit Myrtle Wolff's garden, from which so many award-winning medians have come, and found Myrtle channeling her energies into producing a red-bearded white. Adda Wissbaum, whose MARY JEANNE we liked in our garden, had an MTB seedling whose perky horizontal falls made us stop short. It was perky and sassy, and its conformation is something new to us in MTBs. Les Hildenbrandt had more arilbreds than we have seen elsewhere, and while they were in the last stages of bloom, they looked very good. His BB 69-5 was a different red, very smooth red, with a pure yellow deep in the center of the flower. His 68-17, another red, with five flower stalks to the plant and a bud count of nine and ten per stalk also was exciting. His WINTRY NIGHT seedling with a tricolor beard was interesting. It was pleasant to visit with friends from Lexington, and we regret that Bulletin and ballots made us cut short our stay and miss seeing others we have known for years.

As this is written, we will have seen forty-nine gardens and six shows by the time we complete the season. We had planned on going on to see the Chicago gardens, but four of the girls called to say they were coming home the seventh, and even as deeply involved in irises as we are, when daughters plan to come home at the same time, that is it. We tried to get to Davenport to follow that unusual trek of iris gardens, but time did not permit. The press of Bulletin deadlines was so great that we even had to forego the Region 21 meeting.



John and Frances
Humphrey



A Tribloomer Developed by Ray-
mond G. Smith

It is with a sharp pain of regret that those of us who have worked with Peggy Burke Grey over the years see her relinquish the duties as Robin chairman. She has worked with the program since its inception, and we shall miss her bubbling enthusiasm. To her and The Great Abu, her phenomenal show horse, all the best. And it is with enthusiasm that we greet the new chairman, Leda Christlieb. She comes to the program with a firm knowledge of its mechanics, and a wide range of robineers who subscribe enthusiastically to her as head robineer. She fulfills every category laid down in the two-year search for a new head of the Robin program, and to her we give every good wish and our pledge to help her in any way possible.

Dr. Carl Jorgensen, only newly back from South America, already has started work on scientific experiments in irises. Currently he is working with dried and undried seeds, in an effort to determine whether germination inhibitors are already present in the seeds before they mature or develop in the drying process.

From the Pollen Dauber Iris Society (Idaho) a contribution of \$25.00 to the Scientific Research Fund.

From the Central Valley Iris Society (Calif.) a contribution of \$10.00 to the Scientific Research Fund, in the memory of Mr. J. J. Streeton.

Ruth Noel (La.) reports on a bus tour in May through Portugal, Spain and Morocco, and being pleasantly surprised at the mass plantings of tall bearded and Siberian irises in the public parks and gardens.



The Bledsoes at Wichita
(Picture by Ira Wood)

My Experiences with Plicatas

Wilma Vallette

To my notion, the January Bulletin was one of the most interesting in years, since plicatas always have been my special favorite in irises. They are so different from any other flower, or from any other pattern of irises, and their endless variety of markings make them still more fascinating. Of course, one needs all the other colors and patterns to set them off; but then one needs plicatas to set all the others off, too!

The first plicata I ever grew, or ever saw, was old MME. CHEREAU, and I kept it for almost 35 years before finally discarding it last fall, along with some 1200 other older irises. I have discarded over 2000 varieties in the past four years and more than 1000 in the ten years before that. Even so, I kept a piece of little old CASTOR, RHAGES, and SPECKLES, plus perhaps half a dozen other diploids, as there is absolutely nothing in modern irises that are at all like them.

It was my love affair with plicatas that led me to start my first Iris Hybridizing Robins back around 1945-6. I didn't know a stamen from a spathe at the time, but I wanted to learn and was willing to direct a Robin (or several Robins) in hopes of learning at least some of the mysteries of hybridizing. I wrote to Tell Muhlestein and Tom Craig to ask if they would be willing to join a Robin, to supply the know-how that I and the other members lacked. Bless their hearts, busy as they were, they both consented. Both stayed with us until we in the first few Robins had some faint idea of what it was all about. I still have a few of my original members left, who know about as much about hybridizing as anyone in the country, and at least one of them is well known for her many top-quality introductions.

Even then, I had lots of irises. Once bitten by the iris bug, I set out anywhere from one to three hundred or more a year from 1942 on. Just ANYTHING, so it was a named iris I didn't have. Most of them were old even then, so by the time I started hybridizing, I had most of the old-timers—AMAS, LORD OF JUNE, ESPLENDIDO, ABELARD, QUEEN OF MAY—you name it, and I probably had it. But once I saw the endless variety of plicatas, I was hooked, but good, and traded or bought all I could find that were within my means. I think of all the older plicatas mentioned in the January Bulletin I had all of them and many more; not until 1955 when my space became so full of older ones did I start discarding. Today I have almost none of these old-timers left.

My main wish in starting the Hybridizing Robins was to breed a pink-ground plicata, with a tangerine beard. I had plenty of plicatas, and a few pinks; remember, 25 years ago, pinks were rather scarce. The only ones I remember having at the time were SPINDRIFT, SQ72, and two Hall pink seedlings, No. 42-05 and No. 42-10. I used them with a number of tetraploid plicatas, both white and yellow. To my joy, several of them gave pinks! The only ones I can remember were WAYFARER, FRECKLES, FLORENTINE, and CLARIBEL, though there were others. I crossed several of these pinks and, of course, got nothing but more pinks. Used with yellow or white sibs, I got a duke's mixture of plicatas, yellows, whites, and a few pinks and plicatas, either white or yellow,

but no pink plicatas. Crossing these yellow or white things together gave mostly yellow or white selfs, a few plicatas, and some rather grayish-to-greenish blends or bitones, of which I introduced one—GREEN FLARE, a 29" affair with clean greenish standards and slightly darker falls washed sienna.

One from CLARIBEL x SPINDRIFT was a clear, bright pink, with a few purple lines on the falls a la MARQUITA, which it much resembled in form. I crossed this with a seedling from PINK TOWER x GAY ORCHID, and got mostly pink selfs, with variegata netting or stripes on the falls of several. One was so intricately stitched and netted that it reminded me of the Kensington-stitch embroidery on the robes of a high-ranking mandarin, so I registered it as MANDARIN'S ROBE. It proved to be a poor grower, so was never introduced, but trying to get cleaner falls, I crossed it with BENTON PETUNIA, and got a whole row of Wine-and-Roses-type things, of which I registered and introduced ROYAL REGALIA, a contrasty "pink" variegata, with smoky salmon-rose standards and purple falls, edged salmon-rose. It was a nice iris, even though it did have typical rough variegata-type hafts; and it still looks quite good, considering that old CLARIBEL is its great-grandmother!

I never did get my pink-ground plicata, though eventually I did get a nice little pink with a few purple plicata-type dots at the hafts, enough to show its plicata blood, though not enough to call it a plicata itself. It had clear shell pink standards and greenish-ivory falls, with a bright tangerine beard, and was such a little doll that I called it DOLLY DARLING. No pollen, but it set seed quite well, and I used it with a number of tangerine-bearded white plicatas. It was too small for its height, and passed this fault on to all its offspring, so I never did get anything from it that was worth keeping.

Tell's NEW ADVENTURE was the first tangerine-bearded plicata I had, and using it with my striped Claribel x Spindrifft seedling gave me a lot of variegata-plicatas, with stitched, clean or almost clean white standards, and falls that had both plicata stitching and variegata stripes. Without exception, all had flowers too small for their height, with too-narrow hafts or upper-falls. I did introduce one, ODDBALL, as a novelty, despite its too-small size. Before then, I had a few other tangerine-bearded plicatas but got nothing from them worth keeping, so I was about ready to give up working for pink-ground plicatas, though I did use CAPTAIN'S LADY, CAPTURED HEART, and DOLLY DARLING with two tangerine-bearded pink-ground plicata seedlings, one bred by Gene Hunt (of ESTHER THE QUEEN fame), and one by George Mayberry. Both of these had falls finely dotted all over in brownish-purple, and both had rather poor form and substance. I got several pink-ground plicatas from these, each worse than the other in form and substance, and most of them highly infertile.

Long before then, I had amassed several notebooks of excerpts copied from Robin letters, from my own 10 Robins, and from several of the AIS Robins I was then directing. (At one time, I had 50, besides my own, but had to give up all the Beginner Robins as I just *COULDN'T* do justice to so many, so my good friends, Collie and Lillian Terrell took over). It seemed a shame for so much valuable and useful information to go to waste, so I began compiling it into my book, IRIS CULTURE AND HYBRIDIZING FOR EVERYONE, which contained excerpts from letters written by literally hundreds of iris growers and hybridizers over most of the United States.

I had read several articles in AIS Bulletins for 1947-8, dealing with plicatas and/or genetics, one of which stated that quite probably plicatas were due to,

not one factor, but to an allelic series, in which, as in all allelic series, each member was dominant to all that came after it in the series, but recessive to those that went before. And in the course of various Robin letters, the question had come up of just *what* could be expected to result from crossing the two kinds of recessive whites—the *b* white, that results from crossing two blues, that is white merely because no blue (*b*) is present, and the *pl-a* whites that seemed to be the end recessive of the possible allelic series of *pl*. So to find out, I crossed two *b*-whites (FROST GLINT and WHITE SATIN), with two *pl-a* (ice) whites, JAKE and LATIGO. Results of these crosses are told in full in the chapters on WHITE and PLICATA, in my book, but as it has been out of print for several years, I will give a brief synopsis of results: Out of close to 500 seedlings, about everything had appeared, from blue selfs to ice-whites, and everything in between. There were very few blue selfs, 2 or 3 perhaps, with a number of blues having more or less purple in the falls, making them bitones rather than selfs; 2 or 3 that had white grounds, plus the purple wash, making them pastel amoenas with clean hafts; a large number of true plicatas in any number of patterns but all with the typical stitched or dotted edging; and a good number of what must surely be further members of the allelic series, lying between *pl* and *pl-a*, such as fancy-plicatas, with blue to purple dotting all over on the standards, and brushing on the falls, which had typical plicata stitching at the edges; fancies, which had the dark standards and brushed falls, without the stitching; what I called Weirdies (a term originated by Tom Craig, if I remember, applied by him to things with either white or yellow ground, similar to his own Weirdie iris—I'm sure I hadn't enough imagination to coin the term!) for Moonlight Sea types, that had clean white hafts and dark standards and falls, the latter being brushed or veined white, with a narrow white edging; Celestar-types (whites, opening from purple buds, which purple showed through on one side of the opened fall, as a pinkish blush; and finally ice-whites. All of the last two types, and many of the Weirdies, had narrow hafts, with the falls widening out a little about halfway down. This rather unpleasant shape of falls seems linked with the Celestar-types and ice-whites, as it is always present, without exception, though in Weirdies, the linkage apparently is not so close, as a few of them have fairly well-formed falls, though hardly what can be called wide.

I reasoned at the time that since a *b*-white was white only because of the total lack of blue, that all color, either blue or purple, had to come from the ice-white, in which the factor for the production of anthocyanin coloring was present, but had been suppressed by a homozygous epistatic factor, so that it could appear only in the various plicata patterns, naturally there would be a large amount of variation, since presumably if *pl* was present four times to control blue enough that it could appear only as plicata markings, then if *pl* was an allelic series, not just a presence-and-absence series like *B-b*, any number of the further members of the series might be present along with *pl*, and though recessive to *pl*, they might still have some effect as modifiers of pattern. And for two kinds of recessive whites used together, to give a small proportion of blue selfs or bitones, had to mean that *B* and *pl* were entirely different factors. If *PL* stood for blue, as was once believed, then in *pl-a* with a no-blue *b*-white, no expression whatever of blue would be possible. Therefore, *pl* to *pl-a* did consist of an epistatic allelic series, entirely outside of blue.

But was this really true? So, the next thing to do was to cross various plicata patterns together, to see just what happened. I had several hundred of these seedlings that bloomed after my book was published, so that no mention of

them is in it. I learned that crossing, say CELESTAR and JAKE (*pl-c* and *pl-a*), gave nothing but these two patterns, but crossing either of them with, say MOONLIT SEA or my own MOONLIGHT MIDNIGHT (a colorful purple Weirdie with lemon hafts and edgings to the falls), gave over half Weirdie types, and several Celestar-types and ice-whites, which if yellow was present, was always lemon-yellow from xanthophyll, and never ordinary carotene-yellow. Like narrow hafts or falls, there seemed to be an unbreakable linkage between *pl-c*, *pl-a*, and xanthophyll yellow, thus giving these the name of lemon-ice.

The same was true of crossing plicatas, fancy-plicatas, or fancies with ice-whites. Almost all patterns lying beyond the dominant parent would appear, but never any that came before it in the series. I no longer have my stud books recording the actual results, but I do remember that roughly half, or a little more, were of the type of the dominant parent, with anywhere from one to several of any or all of the more recessive types, which to appear at all, had to have the factor from both parents. Only when a plicata was outcrossed to a non-plicata did blues appear, showing that the *pl* factor was too much weakened to be able to control or partially suppress *B*. My *b-pla* crosses also proved that both *b*-whites carried *pl* at least twice, to be able to give F₁ plicatas. And that these plicatas were marked in either blue or purple, and that blue bitones and a few pastel amoenas also resulted, hinted strongly that the pattern might have more than one origin.

It has always been considered that *pl* originated in *I. pallida*, since all the first plicatas were white, with stitching or dotting. But — could there be two origins? A man whose name I will not mention considers that quite possibly *I. variegata* also had a factor for plicata. Consider: variegatas are yellow, with white falls either striped or netted red or purple, or with solid red or purple falls, edged yellow in either case. Plicatas are just the opposite: a white fall edged blue, and with a blue median-line up the middle until quite recently, just where the lighter median-line occurs in variegatas. These always have clean yellow standards, whereas plicatas may have clean ones, or standards lined, dotted, or stitched at the edges, and fancy-plicatas, fancies, and Weirdies have standards so thickly stippled or sanded in dark coloring as to be practically solid color. So in more ways than one, plicatas and variegatas are something in the nature of negative-images each of the other. In neither diploid species could plicatas appear, since the typical color and/or pattern of each was dominant so that nothing but blue selfs could appear in one, and from the other, only yellow-and-red (or purple) variegatas with either striped, netted, or solid-color falls, all having a yellow edging.

This, along with my striped pink from CLARIBEL x SPINDRIFT, and all those oddballs from NEW ADVENTURE that had both plicata stitching and variegata-stripes, and those blue bitones and pastel amoenas from my *b/pl-a* crosses, do strongly seem to suggest that plicata pattern has possibly not one, but two origins, from both diploid species. It would be interesting to test this theory, and if true, it would help explain the great variety of plicata patterns. Especially if both kinds of *pl* had their own multiple allelic series, to modify each other as well as to exercise epistatic control of both *pallida*-blue and *variegata*-purple, as seems possible, providing they were carried in corresponding chromosomes, perhaps. At least, my crosses of ten to fifteen years ago proved to my own satisfaction that *plicatas were caused by an epistatic factor entirely outside the B-b allelic series*, that could modify and govern blue to the extent that it could appear only in various plicata patterns. It could also be present in

b-whites, that had no blue to be controlled, but could give plicatas when crossed with them, or with something carrying *pl* as a recessive. They also proved that *PL* did NOT stand for blue, but only for non-plicata, since being a recessive pattern, plicatas could not appear unless present at full strength, whether as four of *pl* itself, or as some further member of the allelic series, anywhere from *pl-f* to *pl-a*, so that even one being absent (as *PL*) would give blues, not plicatas, thereby leading to the appearance that *PL* was blue, and that blue was dominant to the whole plicata series.

ANNOUNCEMENTS

SYMPOSIUM (POPULARITY POLL) BALLOT

Your 1971 SYMPOSIUM ballot was enclosed with your April Bulletin (in the middle of the Bulletin). If you have not already done so, please mark this ballot and mail it to your Regional Vice President (name and address found on page 4 of the Bulletin). We hope that all of you will mark and mail this ballot so we can get a wide appraisal of the most popular tall bearded irises in members' gardens.

INTERNATIONAL HORTICULTURAL EXHIBITION 1973

The city of Hamburg, together with other sponsoring organizations, is holding the International Horticultural Exhibition in 1973. The date of delivery should be after bloom season in 1971, with exceptional plants after the bloom in 1972. The plants declared as "exhibition goods for IGA 73" have to be addressed to: Sonderdienststelle IGA 73, Pflanzen und Blumen, Wirtschaftshof, Attention Mr. D. Behrens, 2000 Hamburg 36, W. -Germany, with two copies of the advice of dispatch including a description of the plants, e.g., the color of the blossom.

Several American iris growers have participated in this international exhibition in the past.

PHOTOSTAT COPIES OF REGISTRATIONS AND BULLETIN ARTICLES

To those who have inquired: We have on file most of the original registration applications since 1960. These often contain more complete information than the necessarily cryptic published registration information. For those seeking to trace and identify irises, we can make copies of the original application for twenty-five cents. Likewise, we can reproduce any *Bulletin* article for twenty-five cents a page. Send money and requests to the Omaha office.

REGISTRATIONS — INTRODUCTIONS

Registrations \$3.00 each

Introductions: Free recording. Be sure that your catalogue or printed list is filed with the registrar and that each present-year introduction is marked plainly. Irises not recorded as introduced are not eligible for awards higher than HC. Irises advertised in the October 1970, and January, April and July Bulletins are automatically recorded as 1971 introductions. Mail to J. Arthur Nelson, 3131 North 58th St., Omaha, Nebr. 68104.

To be sure your registrations appear in the 1972 issue of *Registrations and Introductions for 1971*, they must be processed by October 31, 1971.

BULLETIN ADVERTISING RATES

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IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

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*Robert Schreiner, Chairman, Slides Committee,
3785 Quinaby Rd., NE (R. 2), Salem, Oregon 97303*

IMPORTANT

If you have moved, or plan to change address, or if your Bulletin address, including zip code, is wrong, notify

Clifford W. Benson, Secretary
American Iris Society

2315 Tower Grove Ave.

St. Louis, Mo. 63110

Also if you are a judge, please note that, so we can prepare the extra address stencil.

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- BANNERS ROYAL—TB.** A large, tall, flaring rose-red with a good deal of ruffling, a vigorous grower. Fertile both ways. Seen in Dr. Knocke's garden as 30-65. HC 1970. From a red seedling X King's Mountain
\$25.00

INTRODUCTIONS FOR 1970

- BATTLE HONORS—TB.** Rose-red bitone, red-brown standards, rose-red falls, tall and well branched, vigorous grower. Midseason. Fertile both ways. From a red seedling X King's Mountain. HC 1969 \$15.00
- ROUND DANCE—TB.** Rose-red bitone, standards light rose flushed bluish, falls bright rose-red, some ruffling, tall and well branched. Midseason. Proven a good parent. King's Mountain X (Orenda x Tall Chief).
HC 1969 \$15.00
- SHINING MOMENT—TB.** A smooth peach pink with a yellow beard (sometimes white), some ruffling. Tall, well branched. Fertile both ways. From shell pink breeding \$15.00

We do not put out a catalog or list.

1922

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INTRODUCTIONS FOR 1971 FROM FRANK FOSTER

DIXIE VIRGINIA (Foster '71). Sdlg. F-21-50. (Cloud Cap x Orange Crush) X Orange Parade. TB. 35". Early-midseason. This apricot-orange beauty has very large blossoms, both standards and falls having great width with adequate ruffling. Beard is tangerine-peach, with apricot-yellow hafts. Standards are well held with strong midribs, with semiflaring falls. Very good branching with eight to nine buds, and excellent growth habits, usually producing three to four increases each year. Fertile both ways. Named in honor of a close friend, Dixie Freudenberg, President of the Colorado Federation of Garden Clubs. \$30.00

AGE OF AQUARIUS (Foster '71). Sdlg. AF-25-1. (Above All x Babbling Brook) X ((Pikes Peak x (Mary McClellan x Pikes Peak))). TB. 33". Midseason. Words are not enough to describe this blue beauty. A blue of a different hue. Almost a flax blue self, with a lavender wash half way down the falls, giving the entire flower a steel gray-blue effect. An incorporation of all the excellent qualities of its parents. The standards and falls are of extreme width, with excellent substance. All-over ruffling adds great depth to its beauty. Beard is bluish white. Growth habits, foliage and branching are very good. \$30.00

MISS HOSPITALITY. (Foster '71). Sdlg. F-67. ((One Desire x (Pink Clover x One Desire)) X Chi-Chi. TB. 32". Midseason. A complete self of light pink, with inconspicuous amber-pink hafts. The coral-pink beard adds great depth to the over-all beauty. The firmly held standards and falls are slightly ruffled. Substance, branching and growth habits are very good. Increase is above average and it has proven fertile both ways. Excellent seedlings bloomed last year from crosses with Age of Aquarius and Irish Lullaby. Named in honor of a cousin who served the state of Mississippi in her gracious ways. \$25.00

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We are expecting a sell out, so do not delay in ordering. For our other introductions by Mr. George Crossman and Gene & Gerry Burger—see our ad in the April Bulletin on Page 80.

Our list of most of the newer varieties sent on request

Siberian Irises

Dr. and Mrs. Currier McEwen

Daylilies

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Second Generation Tetraploids

Last year we introduced the first second generation tetraploid Siberian irises: ORVILLE FAY (blue) and FOURFOLD WHITE. This year we offer a red one:

EWEN. 32". E to M. 6" flowers with wide, flaring falls. All segments wine red (74 A to C in RHS Colour Chart) with pale yellow blaze. Fertile both ways with tetraploids. From colchicine induced parents involving Towanda Red Flare and Caesar's Brother. Prices: EWEN \$40. ORVILLE FAY and FOURFOLD WHITE \$30 each. All three for \$80. Stock of all is very limited.

28 Chromosome Diploids

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BLUE FORTY. 30". M to L. Of usual 40 chromosome form and size but unusual color—pale blue (99 B) closely streaked and stippled with darker blue (99 B). Striking effect is enhanced by blaze of violet and yellow. Very floriferous and highly fertile with other 40 chromosome cultivars and species. Fine branching. From seedlings derived from Mrs. Doris Hanford's mauve line from *I. bulleyana*. \$10

MAUVE MOOD. 32". M to L. The 3" flowers have standards and falls of mauve (81 A to C) set off by purple styles shading to black at their tips and a blaze of reddish-black. Fine branching. Floriferous and fertile. Sister to Blue Forty. \$10

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APRIL AD CORRECTIONS BELOW

CORRECTION CZARINA BROWN AD

Page 36, April 1971 Bulletin.

SADA VAUGHN (H-7-3) is from sdlg. B-1-1, not B-11-1.

CHANETTA should read GAY PRINCESS in its parentage instead of Gay Primrose.

JAMES E. and SEARCY S. MARSH

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SEE OUR AD PAGE 19 APRIL BULLETIN

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SEE OUR AD PAGE 79 APRIL BULLETIN

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AMERICAN IRIS SOCIETY

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American Iris Society

NUMBER 203 OCTOBER 1971

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THE AMERICAN IRIS SOCIETY

2315 Tower Grove Ave.

ST. LOUIS, MO. 63110

THE BULLETIN

of the

AMERICAN IRIS SOCIETY

No. 203

October 1971

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The *Bulletin* is published quarterly by The American Iris Society. Publishing office 2315 Tower Grove Ave., St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo., and at additional mailing offices.

Communications regarding membership in the Society and other items of business should be addressed to Mr. Clifford W. Benson, Executive Secretary, 2315 Tower Grove Ave., St. Louis, Mo. 63110.

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All copy due in editor's office fifty days before first of the month of publication.

The *Bulletin* is printed by The Livestock Press, Inc., 2830 "O" Street, Omaha, Nebraska 68107.

THE AMERICAN IRIS SOCIETY

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FROM *The* PRESIDENT'S DESK

As I write this, my last Bulletin "message" as president, I can not refrain from looking back over the happenings during my tenure. At the beginning, I invited you to let me know your feelings on issues as they arose, and this you have done. I was not able to see accomplished everything I had hoped for. But I am pleased over the many forward steps taken by the Board of Directors and by the members. AIS has continued to make progress, in spite of the financial difficulties that have plagued us and continue to confront us.

I have been extremely fortunate in having the assistance of a fine group of Board members, national committee chairmen, and AIS officers. Many of these dedicated ladies and gentlemen have performed outstandingly—far above and beyond normal requirements and expectations and always at considerable personal expense and sacrifice of time. And I never cease to marvel at the vast majority of members who are devoted to the betterment of our Society. I give each of you my personal gratitude and my official thanks.

But enough of this looking back! It is the future which always interests us—and I believe this to be bright for our Society. We have an ever-increasing number of young leaders who are rapidly proving their outstanding ability, their aggressiveness, and their sound judgment. When you season these ingredients with the wisdom and the experience of our "old pros" who still occupy some of the positions of leadership, the resulting mixture portends a great future for AIS!

I shall continue to be active in the iris world, but understandably I shall give more time to my own hybridizing and growing. For the past eight years, I have devoted almost every waking moment of my away-from-the-job time to the affairs of the Society. I feel that I have earned the privilege now of spending more of my spare time in my own Hilldale Gardens and tending the plants growing there.

If I can be of help to any of you, I request that you let me know.

William T. Bledsoe

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AFTER ONE YEAR OF GROWING FRIENDS AND IRISES

Ed Pasahow

It may seem out of place for a newcomer to the ranks of irisarians to submit an article to the *Bulletin of the American Iris Society*, but I feel that knowing the thoughts and problems experienced during my first year of iris growing may help the more seasoned member to offer the most appropriate advice when asked by the beginner. During my debut year, I was especially fortunate to be a member of the San Diego-Imperial Counties Iris Society whose membership warmly welcomed my wife and me from the start. Iris people are also the most friendly people who make a hobby so much more fun in the sharing. It is this friendliness which convinced us to join AIS, and the events leading to our submitting an application are a good lesson on recruiting new members. The 1970 Spring Iris Show in San Diego was a revelation to one who thought of the iris as a purple flower. The pinks, browns and yellows of the tall bearded were almost psychedelic. Then there were those unusually tall and stately spurias and Louisianas that made their presence known from across the hall. The Siberians were so light and airy, and the Pacific Coast natives were such delicate flowers with their beautifully veined petals. The dinner plate Japanese were from another world in their impact on these viewers. After wandering through the tables of horticultural display, we were further impressed by how well irises could be used by arrangers, and there was even an arranger's section for men only, in which the humoresque and the grotesque were appreciated for their novel contribution.

All this and we had not yet noticed the high point of the show . . . at the door was the bedazzling information table at which sat a lady in a huge hat bedecked with hundreds of irises and a mustachioed gentleman in a pith helmet decorated with irises and wearing eye-jangling red, yellow and blue diagonally striped pants. Talk about the Now Generation, they were the day after tomorrow! I will not reveal the identity of these fairly normal individuals because I have no desire to embarrass them, but they were really having a good time at the show talking to visitors and informing them of the benefits of an AIS membership. We were sold and signed up on the spot. We spent the rest of the afternoon at the show dreaming of next year when we would bloom these beauties in our own garden. In this frame of mind, it is not surprising that at closing time we were shocked to see the clean up committee cavalierly tossing those blue ribbon blooms in the trash. Our dragging jaws must have been noticed because we were offered any of the rejects that we wanted. Joyfully we carried double armloads to the car and enjoyed them for more than two weeks.

During the next month, we attended our first meeting of the society which happened to include a slide show of the blooms seen on the spring trek in Riverside. Thus primed we rushed back to the plant table to pick out our "must haves" from the list made during the show. We also received numerous offers of rhizomes from the members' gardens which started our collection. Careful reading of the national and regional booklets for beginners told us the basics of planting, but I still felt unprepared to plant the rhizomes and wished for someone to look over my shoulder. I knew more about the Dykes Medal than

how to plant a spuria, and *Garden Irises* was out of print! To this day I do not know exactly how deeply one should plant the various beardless irises. I did learn the results of not setting spurias and Louisianas below the surface . . . complete disaster. I had been brain-washed into believing that an iris rhizome had to be visible. This defect was eventually corrected when the unsatisfactory growth was noticed. My garden has both raised and with surface beds, and results do not indicate that one is better than the other in my growing. The critical factors seemed to be plenty of sunshine, water and fertilizer. It is difficult to find a flower easier to grow which offers so much in return for a minimum of care.

After the planting, we waited for spring and our first bloom season. It started with *Iris reticulata* which only hinted at the display to follow. Much excitement accompanied preparation for our first iris show. We wondered how to transport the blooms without damage and were shown by an experienced show woman the magic that can be worked with such everyday materials as a styrofoam ice chest, chicken netting and wire. With this knowledge, we made it to the show with just one casualty. One bloom was decapitated when trying to force it through a door sideways. Walking around outside the show area, we sweated out the judging, then rushed back to view the results. Imagine the pleasure of finding that you had been awarded not one, but ten, blue ribbons in your first show.

In addition to showing, I have enjoyed the educational and sometimes mystical species and natives robin. This was an excellent means of enlarging my growing group of iris friends. At first the vast amount of new information was more confusing than helpful, but reading various books, as well as patient answers to my sometimes naive questions, started to straighten me out. Joining the Species Study Group and reading *SIGNA* helped even more, and I began to comprehend parts of the robin. This only increased my desire to learn more about irisdom.

Then I discovered hybridizing. People and books described the simple process of rubbing pollen on the stigmatic lip, but I was really surprised when it worked and I had my very own seed capsules. All of these efforts have been with beardless varieties, and germination has been very good. I hope to see the first blooms on some of my crosses in a couple of years. The ease with which you create a new iris of your very own is a big part of the pleasure of hybridizing for me.

The experienced grower may be surprised at how mysterious the simple processes of iris culture are to the neophyte. It is the simple tasks such as planting, watering, picking blooms, pollenizing, transporting blooms to shows and understanding such specialized terms as plic and amoena that are so puzzling. For example, it took me several months to distinguish between the foliage of spurias and that of Siberians. A regular article in the *Bulletin* concentrating on these basics in simple terms would be welcome.

What would my advice be to a beginner now that I have all this "experience"? Try everything you can from growing as many varieties as possible to hybridizing your very own. Learn from your mistakes and the advice of other growers. This has been an exceptionally interesting year, and I will always remember the first blue ribbon, my disappointment at the recurved falls of *I. ochroleuca*, the bloom season, but most of all the friendliness of irisarians wherever I meet them.

Swan Lake Iris Gardens

Mrs. Wells E. Burton

It has been my habit for many years to read about gardens and to note anything that struck me as being of special interest to me and perhaps to others. This year it was my good fortune to be able to visit The Swan Lake Iris Gardens at Sumter, South Carolina (a garden I read about back in 1948). It is a garden which makes one forget all the small pettiness of daily life, a peaceful place, a place of delight and beauty. After seeing this garden I thought—behind every project well done is a man or woman who has given a lot of himself that others may reap the rewards of his unselfishness. I went to the local library in Summerville and was referred to Mrs. G. G. Miler. I called her, made a date for the next day, and thus this story unfolds.

Mr. Hamilton Carr Bland, Mrs. Miler's father, was a very versatile man in spite of a severe handicap of arthritis which kept him in a wheelchair many years. He was a jeweler, a car builder, a superb photographer (speciality of clouds and seeing human faces in clouds and of people) and he had an eye for beauty of nature and knew how to put it all into a garden.

In 1927 he purchased "The Pond" in Sumter with the intention of stocking it with fish and birds. After much hard work of cleaning "The Pond" of old bedsprings, cans and other garbage, he planted several berried shrubs to attract the birds. Some of the shrubs were nandina, holly, oleander, mimosa, strawberry, pyracantha and sweet olive. Many of the first birds brought into the pond area were destroyed by alligators.

Later on two black swans were imported from Australia. These arrived more dead than alive and were nursed back to life. White swans were brought in from New York. Did you know the black swans mate for life and have two nests a year, and that the white ones have no voices but do hiss? Other water fowl brought in were brown Chinese geese, white egrets and blue herons.

Mr. Bland had some Japanese irises that were not doing well up by his house, so he brought them to the pond and tossed them in the muck along the edge. It seemed that almost over night they grew and were beautiful. A Mr. Reed from the Botanical Gardens in New York heard of these irises growing in Sumter and came to see them, and was amazed at their size and color. He and Mr. Bland became close friends and ordered more irises from Japan. In 1936 the lot was increased to 250 (the Japanese irises are planted in groups of 50 of a kind). During the interim of ordering and planting them Mr. Bland planted many cypress seedlings that he had grown, and along with these oaks and pines were added, thus giving a background to the woodbine, yellow jessamine, myrtle and willow. To these now have been added lilies, wisteria, azaleas and camelias. The varying heights of trees and shrubs along the banks and pond edge affect the stillness and the color of the inky dark water. Some trees are overhanging and form a bridge with the water for the water fowl to swim under. Mr. Bland used as much of the native material as possible. The original pillars to the garden were made of native brown stone. The islands were built by digging the muck up and putting in huge pieces of concrete obtained from the city where they were tearing up the sidewalks and rebuilding. On top of these mounds of concrete was placed the muck. It was then seeded. Paths were sown with Bermuda and carpet grass. Seats were placed along the walks and pond edge where they commanded a good view of the garden or of some portion of the garden or its surroundings. The shape of this pond is ideal because it disappears from view, thus giving it a

larger appearance. On the west bank was built a 10' wide path bordered on each side with three rows of irises planted in clumps of 50 of a kind. Some of the earlier Japanese irises established are T. S. WARE, BLUE GIANT and MARGARET. Mid-season ones are PINK AND OPAL, MOONLIGHT WAVES, BOSHU-NO-TEN and PURPLE HIGO. Late bloomers are PINK LADY, PAINTED LADY, HELEN WELLS and BLUE FUKRON plus many, many others.

In 1938 a Mr. A. T. Heath, head of the Coca-Cola Bottling Company, bought 70 acres nearby, and deeded it to the city to be developed as a garden or park under the supervision of Mr. Bland. Now for the first time Mr. Bland was to get some help (the feeding of the swans alone was costing him \$2,000.00 per year). Tennis courts, picnic tables, recreation areas have been added. During the iris bloom season parades and dances were held. During the war activities were curtailed. From 1947 up to this date iris bloom season is a week of festivities. It is not unusual to find people from five nations in the garden at a time. Last year 100,000 were there to witness the spectacle of floats, crowning of the two Queens (Queen Iris and Neptune's Daughter), sky-diving and air show, sidewalk art show, bicycle rodeo, karate demonstrations, tennis tournaments, band music, airplane fly-in and cross country motorcycle races.

On December 2, 1946 Mr. H. C. Bland received a radio salute for his work and gardens. It was sent out over 450 radio stations. In 1949 he deeded his tract of 50 acres to the city.

The Sumter Garden Club has contributed to this garden by putting in a walk for the blind. A guide wire about elbow high is attached to posts and on the top of each post is a plaque on which is written in braille the name of the shrub, tree or flower that is to the right, left or straight ahead.

Today the internationally known Swan Lake Iris Gardens, so named and officially dedicated to the city in 1956, totals 168 acres and are open to the public and are free. The irises are usually in bloom the last week in May.

It seems to me we in AIS have been handed a "gold mine" by Mr. Bland, but have done nothing about it—perhaps because we didn't know about it. Couldn't we plant a block of named varieties, and have name tags so it would be a place for judges to see Japanese irises and to judge them. Just a thought as I found no named irises to help with my ballot.

Thank you, Mrs. G. G. Miler, for a very interesting story for AIS. You have every reason to be proud of your father's accomplishments. It is a beautiful garden!

EXHIBITION COMMITTEE REPORT, 1971

Clarke Cosgrove, Chairman

There was a slight increase in the number of accredited shows in 1971, although drought and unseasonable weather brought about a cancellation of several scheduled shows. The increase was due largely to the staging of early as well as mid-season shows by a number of societies. The total number of shows stands at 117 with Region 22 (Arkansas and Oklahoma) forging into the lead with 17 accredited shows.

Over the past few years the winner of the Nelson Award for being judged the Best Specimen in the greatest number of shows has alternated between STEPPING OUT and WINTER OLYMPICS, with STEPPING OUT the 1971 winner in five shows. WINTER OLYMPICS was Queen in four shows and CUP RACE, JILBY and MOON RIVER had a three-way tie for third place with three shows each.

The count of shows reported by Regions is as follows:

Region	Shows	Region	Shows
1	2	13	4
2	1	14	12
3	2	15	13
4	5	16	0
5	2	17	7
6	12	18	7
7	6	19	1
8	5	20	1
9	2	21	4
10	1	22	17
11	3	23	4
12	3	24	3
		TOTAL	117

This year establishes a new distance record for the transporting of specimens to shows. Gordon Loveridge of Australia air-expressed spuria specimens from the Southern hemisphere to tie for the Bronze Medal at the La Jolla Fall Show and both the Silver and Bronze Medal winners for the spuria iris show at the Wichita convention had transported the specimens from southern California.

With 141 Exhibition Certificates awarded by judges attending the shows, this section of the report has been removed from its customary position to become a separate report and to free space for reporting winners in the Youth Division.

The movement to include a youth horticultural as well as an artistic division in the show schedule has continued to grow and to encourage this growth special recognition is being given. As the current forms for reporting shows do not include a place for the Youth Division winners it is possible some winners were not reported this year. To remedy this situation special supplementary forms have been prepared by the Exhibition Committee and will be sent to all show chairmen when the show schedule includes a Youth Division. It is imperative that show schedules be sent to the chairman of the Exhibition Committee prior to the staging of the show.

<i>Place of Show</i>	<i>Silver Medal</i>	<i>Bronze Medal</i>	<i>Variety</i>	<i>Exhibitor</i>
REGION 1				
MAINE				
Auburn	The Mollicones	Bernard McLaughlin	Benton Olive	Shirley Pope
MASSACHUSETTS				
Worcester	Mrs. F. W. Warburton	Fred Gadd	Cup Race	Carleton Ulm
REGION 2				
NEW YORK				
Oyster Bay	William Peck	Harry Kuesel	Lord Baltimore	Harry Kuesel
REGION 3				
PENNSYLVANIA				
Philadelphia	Helen M. Carr	John C. Lyster	Skydiva	Helen M. Carr
Pittsburgh	E. J. Cooper, Jr.	W. J. Eyman	College Queen	E. J. Cooper, Jr.
REGION 4				
MARYLAND				
Easton	Mrs. Jack Bowersox	Mrs. Henry Purdy	Winter Olympics	Miss Ruby Pannal
Towson	Mrs. Anne Allen	Mrs. Charles M. Cox	Blue Baron	Mrs. Jack Bowersox
NORTH CAROLINA				
Charlotte	Dr. and Mrs. Lloyd Zurbrigg	Mrs. John E. Broskie	Jilby	Mrs. W. D. Collins
VIRGINIA				
Radford	Dr. and Mrs. Lloyd Zurbrigg	Fred G. Stephenson	Cup Race	Dr. and Mrs. Lloyd Zurbrigg
Richmond	Dr. and Mrs. Lloyd Zurbrigg	Mrs. Ellen K. Crouch	Red Polish	Dr. and Mrs. Lloyd Zurbrigg
REGION 5				
SOUTH CAROLINA				
Columbia	Mrs. Richard S. Blackburn, Jr.	Mrs. Margaret Gunter	Gay Whisper	Mrs. E. L. Paquet
Edgemoor	Mrs. W. D. Collins	Miss Sharon Roddey	Soaring Kite	Mrs. Roy Carter
REGION 6				
MICHIGAN				
Flint	Mrs. James F. Dimmitt, Jr.	Dr. Harold Stahly	Christmas Time	Mrs. Mathew Kvintus
Grand Rapids	Ivan Kinney	Stuart J. Loveless	Blue Baron	Ivan Kinney
Kalamazoo	Mrs. James Copeland	Mrs. Charles Katz	Prince Indigo	Mrs. James Copeland
Lansing	Robert Northrup	Sid Sterling	Stepping Out	Robert Northrup
Mio	Evelyn Roberts	Gladys Goodrow	Blue Silhouette	Evelyn Roberts
OHIO				
Akron	Anthony Willott	Mrs. William Hendershot	Techny Chimes	Mrs. William Hendershot
Columbus	Don Sauers	Arthur Wuellner	Real Delight	Arthur Wuellner

<i>Place of Show</i>	<i>Silver Medal</i>	<i>Bronze Medal</i>	<i>Variety</i>	<i>Exhibitor</i>
Dayton	Earl Hall	Dave Rawlins	Night Heron	Dave Rawlins
Independence	Mr. and Mrs. J. E. McClintock	Mr. and Mrs. Anthony Willott	Irish Sea	Mr. and Mrs. J. E. McClintock
Mansfield	John J. Schaefer	Dr. L. P. Irvin	Utah Valley	John J. Schaefer
Parma	Mr. and Mrs. Anthony Willott	Mr. and Mrs. James McClintock	Satin Sound	John Rusk, Jr.
Springfield	Mr. and Mrs. Russell Fenton	Mrs. Robert Welch	Rococo	Mr. and Mrs. Russell Fenton
REGION 7				
KENTUCKY				
Lexington	Dr. H. C. Mohr	Mrs. Robert C. Walsh	Patience	Jerry W. Newman
St. Matthews	Mrs. L. R. Strohman	J. R. Dixon	Denver Mint	J. H. Drake
TENNESSEE				
Lewisburg	Mrs. Frank Tyree	Mrs. M. A. Luna	Brave Banner	Donald Saxton
Memphis	Mrs. R. C. Parker	Mrs. Warren Moxley	Bon Vivant	Mrs. R. C. Parker
Murfreesboro	Calvin S. Cunningham	Mrs. Thelma Lamb	Christmas Time	Mrs. Mary Wiley Morgan
Nashville	Chap. C. S. Cunningham	J. B. Robinson	Blue Petticoats	Mrs. H. D. Moonighan
REGION 8				
MINNESOTA				
Edina	Gable Gardens	Ed Holloway	Jolie	Ed Holloway
St. Paul	David Sindt	Riverdale Gardens	Fashion Lady	David Sindt
WISCONSIN				
Fond du Lac	Melvin Bausch	Mrs. Rodney Krueger	Isle of Dreams	Melvin Bausch
Milwaukee	Mrs. John Troka	Mrs. Robert Reinhardt	BeeBop	Mrs. Robert Reinhardt
Milwaukee	Mrs. John Troka	Fred Jahnke	Stepping Out	Mrs. Jack Kimber
REGION 9				
ILLINOIS				
Hinsdale	Julia Kupstis	Muriel Milsted	Bee Wings	Julia Kupstis
Lombard	Donovan Albers	Richard Sloan	Celestial Blue	Sherman Kindell
REGION 10				
LOUISIANA				
Lafayette	Charles W. Arny	Mrs. W. J. Gaidry	Sidney Conger	Mrs. W. J. Gaidry
REGION 11				
IDAHO				
Boise	Mrs. C. V. Emerson	Mrs. Ruby Lindsey	Caroline Jane	Ernest R. Frost
Buhl	Mrs. H. E. Parker	Mrs. Albert Toberer	Cloth of Gold	Mrs. Ruth Duggan
MONTANA				
Missoula	Mrs. M. A. Price	Merritt Cass	Stepping Out	Mrs. Robert D. Watt

<i>Place of Show</i>	<i>Silver Medal</i>	<i>Bronze Medal</i>	<i>Variety</i>	<i>Exhibitor</i>
REGION 12				
UTAH				
Logan	Mrs. H. C. Hansen	Mrs. Merlin Tams	Pacific Waters	Margaret S. Maughan
Ogden	Ben Stanger	Herb Spence	Jilby	Fern Rose
Salt Lake City	Bion Tolman	Dr. F. Boyd Squires	Stepping Out	Keith H. Wagstaff
REGION 13				
WASHINGTON				
Opportunity	Mrs. Irene Alexander	Mrs. Harold J. Buelow	Coraband	Mrs. John Ginoff
Tacoma	Frank Gropper	Aaron Logan	Lovilia	Mr. Charles F. Carper
Walla Walla	Mrs. Jake L. Smith	Mrs. Charles Baldwin	Kingdom	Mrs. W. Sylvester
Wenatchee	Mrs. Bert Warner	Mrs. Dee Wolf		
REGION 14				
NEVADA				
Henderson	Evelyn Harris	Jimi Craft	New Frontier	Evelyn Harris
Henderson	Mrs. Jack H. Cochran	Mrs. Harold B. Miller	Amethyst Flame	Lydia Malcolm
Las Vegas	Mrs. Mark Condo	Mrs. Marvin Ray	Royal Tara	Mrs. Marvin Ray
NORTHERN CALIFORNIA				
Concord	Glenn F. Corlew	Carl and LaRue Boswell	Proclamation	Glenn F. Corlew
Fresno	John Weiler	Philip and Lucile Smith	Chapeau	Sanford Babson
Modesto	Mrs. Emily Nelson	Mrs. R. A. Rich	Nomohr	Mrs. Al Denney
Oakland	Joseph J. Ghio	Glenn F. Corlew	Skater's Waltz	Joseph J. Ghio
Redding	Edna Bryceson	Leo T. Clark		
Redding	Edna Bryceson	Albert Bryceson	Celestial Blue	Paul Maxim
Sacramento	Mr. and Mrs. R. A. Rich	Bob Dunn	Orestes	Mr. and Mrs. R. A. Rich
San Jose	Joe Ghio	Mrs. Emily Nelson	Dardanus	Mrs. Emily Nelson
REGION 15				
ARIZONA				
Sun Country	Dr. D. L. Shepard	Mrs. Richard Scheidler	Reta Fry	Lois E. Staub
SOUTHERN CALIFORNIA				
Arcadia	Robert P. Hubley	Lucienne Michelin	Red Polish	Robert P. Hubley
Arcadia	Robert P. Hubley	Billy Skillman	Lady Mohr	Doris Foster
Arcadia	James LaMaster	William Hawkinson	<i>I. sofarana</i>	Clay H. Osborne
Arcadia	Duncan Eader	Helen Rubey	Moon River	Duncan Eader
Bakersfield	Mr. and Mrs. Roy A. Chism	Mr. and Mrs. Howard Walker	Moon River	Mr. and Mrs. Roy A. Chism
Carlsbad	Mr. and Mrs. George Alexander	James LaMaster	Mt. St. Helens	Annabelle Stubbs
		Shirley Alexander		
Del Mar	James LaMaster	Thelma Carrington	Edenite	Harriet DeGraw
Escondido	Harriet DeGraw	Gordon Loveridge		
La Jolla	George Alexander	Bob Hubley		

<i>Place of Show</i>	<i>Silver Medal</i>	<i>Bronze Medal</i>	<i>Variety</i>	<i>Exhibitor</i>
Riverside	Mrs. Corrine Bromberger	Mrs. Dessa Hadley	Western Hills	Margaret Howard
San Diego	Robert P. Hubley	Margaret Howard	Highline Sunset	Eleanor McCown
San Diego	Eleanor McCown	Marion Walker		
REGION 17				
TEXAS				
Amarillo	Mrs. T. A. Hollar	Mrs. Laverne Treadway	Patricia Craig	Mrs. J. D. Sansing
Dallas	Mrs. W. F. Cooke	Marlin Carruth	Springtime Fantasy	Marlin Carruth
El Paso	Mrs. John Welch	Mrs. Charles L. Calhoun	Crinoline	Col. G. L. Seligmann
Fort Worth	Mrs. Royce C. Blevins	Clarence P. Denman	Grand Alliance	Mrs. Lloyd Gilley
Gainesville	Mrs. Claude McCarty	Mrs. Joe M. Leonard, Sr.	San Leandro	Mrs. Joe M. Leonard, Sr.
Lubbock	Mrs. Edwin E. Patton, Jr.	Mrs. Charles Benson	Bali Aga	Mrs. Edwin E. Patton, Jr.
Waco	Mr. W. C. Haynes	Mrs. E. T. Eggebrecht	First Violet	Mr. W. C. Haynes
REGION 18				
KANSAS				
Garden City	Edwin D. Gutentag	Mrs. Erwin Gruben	Ultrapoise	Mrs. LeRoy Hurley
Hutchinson	Mrs. Omar Werner	Mrs. Glen Stout	Violet Harmony	Mrs. Grant Hill
Selden	Mrs. Charles Heisz	Mrs. Joe Duesberg	Jilby	Mrs. John Stratman
Wichita	James LaMaster	Ray Chesnik	Elixir	Ray Chesnik
Wichita	Betty Price	W. F. Brown	Winter Olympics	Eloise Woodman
MISSOURI				
Joplin	Morris Wagner	Mrs. Bill Reehm	Tinted Porcelain	Mrs. Bill Reehm
Washington	Agnes C. Meyer	Mrs. James Watters	Winter Olympics	Mrs. James Watters
REGION 19				
NEW JERSEY				
New Brunswick	Frank Carr	Van-Ann Gardens	Cup Race	Mel Leavitt
REGION 20				
COLORADO				
Denver	Mrs. Alice Kelly	Mrs. Jo James	Denver Dawn	Mr. Donald O. Rose
REGION 21				
NEBRASKA				
Crete	Mrs. Robert Tenopir	Mrs. Joe Patak	Maytime	Mrs. Edward Hesh
Lexington	Frances Keenan	Hildenbrandts	Seamaster	Frances Keenan
Norfolk	Larry L. Harder	Miss Vera Ludden	Buttercup Charm	Larry L. Harder
Omaha	James Enneuga	G. E. Redman	Milestone	Mrs. Rex Young
REGION 22				
ARKANSAS				
Hot Springs	Mrs. Joe Smith	Mr. and Mrs. Hoyt Smith	Dove Wings	Mr. and Mrs. Hoyt Smith
Hot Springs	Mrs. Joseph Smith	Mrs. Jesse Cox	Mineral King	Mrs. Ida Ashford

Little Rock
OKLAHOMA

Edmond
Enid
Guthrie
Norman
Oklahoma City

Joe L. Saia

Mrs. C. R. Mason
Davis Landes
Mrs. T. N. Cornwell
Mrs. H. R. Hensel
Ken Shaver

Oklahoma City
Oklahoma City
Oklahoma City
Oklahoma City
Quartz Mountain
Stillwater
Tecumseh
Tulsa
Woodward

C. A. Cromwell, Jr.
Mrs. C. R. Mason
Cleo Palmer
Mrs. C. R. Mason
Mr. C. L. Waltermire
John W. Humphrey
Mrs. O. L. Sullivan
Mr. John H. Province
Mrs. Glen Trissel

Richard Morgan

P. L. Parrish
Bill Frass
Mrs. W. A. Nichols
Ted Thompson
Mrs. C. R. Mason
Mrs. Frances Humphrey
Perry L. Parrish
Mrs. Howard Estes
C. L. Waltermire
James Hawley
Mrs. R. M. Kobs
Mrs. Wayne Drumm
Mrs. Clarence Ayers
Eleanor Hill
Hooker Nichols

Rococo

Moon River
Commentary
Cherry Jubilee
Green Spot

Esther the Queen
Launching Pad
Radiant Beam
Blue Champion
Happy Holiday
Dancing Bride
Pretty Carol
Wayward Wind
Winter Olympics

Mrs. J. Dennis Williams

Bill Frass
Mrs. T. N. Cornwell
Mrs. H. R. Hensel
Ken Shaver

Mrs. C. R. Mason
Jim Wage
P. L. Parrish
John Humphrey
Mr. C. L. Waltermire
Mrs. J. W. Daugherty
Mrs. Walter Washburn
Mrs. Barbara Jones
Hooker Nichols

REGION 23
NEW MEXICO

Albuquerque
Albuquerque
Hobbs
Roswell

Mrs. Bernard Lowenstein
Mrs. Carl Brangle
Mrs. T. E. Bertram
Mrs. Arthur Farnsworth

Saracen Prince
Silver Skies
Glittering Snow
Olympic Torch

Mrs. F. C. O'Kelly
Everett Kenneth
Mrs. A. J. Bland
Mrs. A. S. Patterson

REGION 24
ALABAMA

Florence
Guntersville
Huntsville

Miss Rachel Burleson
Mr. and Mrs. Floyd Garner
Mrs. R. P. Van Valkenburgh

Stepping Out
Humoresque
Indiglow

Mrs. J. M. Ross
Bill Ponder
Mrs. Jayne Ritchie

1. Be sure to send your show schedule to exhibitions chairman
2. Order show supplies a month before the show
3. Send completed show report to exhibitions chairman and your RVP.
4. If you are an AIS affiliate, order your medals when you send the report

<i>Place of Show</i>	<i>Youth Division</i>	<i>Commercial or Educational Exhibit</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
REGION 1 MAINE Auburn			Dan Stevens	Dan Stevens
MASSACHUSETTS Worcester			Mrs. John Tedesco	
REGION 2 NEW YORK Oyster Bay			Phyllis Zezelic	Eva Liebegott
REGION 3 PENNSYLVANIA Philadelphia Pittsburgh			Mrs. Charles Barnes Lyn Decker	Mrs. W. S. Eyth
REGION 4 MARYLAND Easton			Mrs. Horace Morgan	Mrs. Henry Purdy
Towson	Keith Bowersox, Hort. Lisa Stewart, Artistic Miss Debbie Beasley	Youth Division	Mrs. Raymond Robillard	Mrs. Raymond Robillard
NORTH CAROLINA Charlotte		Mrs. Margaret Zurbrigg Mrs. Ann Dasch	Mrs. Thomas Burnett	Sardiswood Garden Club
VIRGINIA Radford		Mrs. Margaret Zurbrigg Mrs. Myrtle Poole Mrs. Ann Dasch	Mrs. Albert Simpkins	Mrs. Albert Simpkins
Richmond				
REGION 5 SOUTH CAROLINA Columbia			Mrs. Joe W. Hipp	
Edgemoor	Kathy Feserman, Artistic Shirly Jones, Artistic		Miss Mae Thomas	
REGION 6 MICHIGAN Flint			Mrs. Sam Smith	Mrs. Harold Lake
Grand Rapids		Engelerth Gardens Mr. and Mrs. Frank Johnson	Mrs. Clarence Blakeslee Leland Welch	Mrs. Clarence Blakeslee Mrs. Leonard Dick
Kalamazoo		Arthur Hazzard		

Lansing	Mrs. Martha Tyler	Mrs. R. Geist	Mrs. Mary Stevens
Mio		Pauline Boerner	Iveline Richardson
OHIO			
Akron		Mrs. Alvin Neumeyer	Mrs. Wm. Hendershot
Columbus		Mrs. John Guzzino	Mrs. John Guzzino
Dayton		Mrs. Joseph Gillette	Mrs. Miles Weitzel
Independence	Miss Charlotte Voss	Mrs. Victor Repp	Mrs. Victor Repp
Mansfield		Mrs. Elbert Anderson	Mrs. Sally Glauer
Parma	Mary Jean Rusk, Hort.	Joseph Batcha	Joseph Batcha
	Cathy Willott, Artistic		
Springfield		Mrs. Howard Brown	Mrs. Howard Brown
REGION 7			
KENTUCKY			
Lexington		Mrs. Eddie Florence	
St. Matthews	Robert Strohman	Mrs. Charles Kinberger	Mrs. H. J. Willenbrink
TENNESSEE			
Memphis		Mrs. Warren Moxley	
Murreesboro	Earl H. New		
Nashville		Mrs. J. H. Robinson	Mrs. J. H. Robinson
REGION 8			
MINNESOTA			
Edina		Mrs. K. W. Fisher	
St. Paul		David Sindt	
WISCONSIN			
Fond du Lac		Mrs. Edna Yunker	Nadine Yunker
Milwaukee		Mrs. H. W. Goodrick	Mrs. Rudolph Strempel
Milwaukee		Mrs. Melvin Bausch	Mrs. Melvin Bausch
REGION 9			
ILLINOIS			
Hinsdale		Mrs. Elmer Kennedy	
Lombard		Mrs. A. J. Vasumpaur	Julia Symon
REGION 10			
LOUISIANA			
Lafayette	Walter Dupree III		
REGION 11			
IDAHO			
Boise			
Buhl	Mrs. S. W. Smith	Mrs. E. E. Rutledge	Mrs. Al Kramer
		Mrs. Glenn Draper	

<i>Place of Show</i>	<i>Youth Division</i>	<i>Commercial or Educational Exhibit</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
REGION 12 UTAH				
Logan	Melissa Dixon, Hort. Dale Jones, Artistic	Hazel Henderson	Gary Jones	Gary Jones
Ogden		Mrs. Frank Fernandes	Mable Decker	Mable Decker
Salt Lake City		Mrs. Merrill S. Johnson	Mrs. Cliff M. Reynolds	Mrs. Cliff M. Reynolds
REGION 13 WASHINGTON				
Opportunity				
Tacoma		Mrs. Verna Cook	Mrs. Loyd S. Farmer	Mrs. Albert E. Hugill
Walla Walla			Mrs. Nick Glasser	Mrs. Hattie Hubbard
Wenatchee		Gordon Plough	Mrs. Charles Cooper	Mrs. Jake L. Smith
REGION 14 NEVADA				
Henderson				Mrs. Dee Wolf
Henderson				
Las Vegas				
NORTHERN CALIFORNIA				
Concord			Mrs. Marvin Ray	Sally Harris
Fresno			Ellen Tiffin	Mrs. J. A. Yeager
Modesto			Mary Wallace	Frances Radcliffe
Redding	Eric Christensen, Artistic	Mrs. Aleta Eggles	Mrs. Douglas Morisette	
		Baird Debrowsky	Alma Petrie	Alma Petrie
	Eric Christensen, Artistic	Eugene De Mar		
Redding		Lelia Romer	Dorothy Cockerill	Charles Petrie
Sacramento		Ray Leech	Mrs. Whitney A. Grey	
San Jose		Rees Gardens	Dorothy Lang	Ferne Riggs
		Melvin Lafollett		
REGION 15 ARIZONA				
Sun Country			Mrs. M. A. Green	Mrs. M. A. Green
SOUTHERN CALIFORNIA				
Arcadia			Shirley Bigelow	Sylvia Beck
Arcadia			Sylvia Beck	Doris Foster
Arcadia			Doris Foster	Mrs. Beulah Stuteville
Bakersfield			Mrs. Beulah Stuteville	Mrs. Pierce Davis
Carlsbad			Mrs. Pierce Davis	Thelma Carrington
Del Mar				
		Jack McCaskill		

Escondido San Diego	Presidio Garden Center Thelma Carrington Florida Canyon Botanic Garden	Mrs. Gordon Tinker	Violet Kearney
San Diego		Mrs. Gordon Tinker	
REGION 17 TEXAS			
Amarillo	Mrs. M. S. Downing	Mrs. T. A. Hollar	Mrs. T. A. Hollar
Dallas	Robert G. Demory	Mrs. W. Shelby Dodd	Mrs. W. Shelby Dodd
El Paso	Mr. and Mrs. George Bryant	Mrs. R. D. Ashmore	Mrs. R. D. Ashmore
Fort Worth		Mrs. Syble Robertson	Mrs. H. G. Breckenridge
Gainesville		Mrs. Floyd Rhoads	Mrs. Floyd Rhoads
Lubbock	Kim Boorland, Hort.	Mrs. Edwin E. Patton, Jr.	Mrs. Jack Price
Waco	Mr. Lawrence Carter	Mrs. G. W. Brown	
REGION 18 KANSAS			
Garden City		Mrs. John Boyd	Mrs. E. D. Gutentag
Hutchinson		Mrs. Merle Dixon	Mrs. Harry Spence
Selden		Mrs. Arnold Reichert	Mrs. Arnold Reichert
Wichita	Robert Mayer, Jr.	Wilma Trimpa Jones	Louise Hendricks
MISSOURI			
Joplin		Mrs. S. D. Myers	Mrs. J. Donald Puett
Washington		Mrs. Glenn Zuegin	Mrs. Alfred Kampschroeder
REGION 19 NEW JERSEY			
New Brunswick	Presby Gardens	Mrs. Paul Ryerson	Mrs. Paul Ryerson
REGION 20 COLORADO			
Denver		Mrs. R. R. Reid	Mrs. Jo James
REGION 21 NEBRASKA			
Crete	Hildenbrandt Iris Garden	Mrs. Joe Patak	Mrs. Joe Patak
Lexington		Mrs. Jim Jones	Mrs. Donald C. DeLap
Norfolk	Mrs. Robert Anson	Mrs. Ann Hoegermeyer	Mrs. Ann Hoegermeyer
Omaha	Schliefer Iris Gardens Arnold Schliefer	Mrs. Floyd Hughes	Mrs. J. Arthur Nelson

<i>Place of Show</i>	<i>Youth Division</i>	<i>Commercial or Educational Exhibit</i>	<i>Best Arrangement</i>	<i>Artistic Sweepstakes</i>
REGION 22				
ARKANSAS				
Hot Springs			Mrs. Bertha Mullican	Tim Hassel
Hot Springs			Byron Grebe	Byron Grebe
Little Rock			Mrs. Frank Rutledge	
OKLAHOMA				
Edmond		Mrs. C. R. Mason	Mrs. E. H. Vanantwerp	Mrs. James Campbell
Enid			Mrs. Dru Hillery	Mrs. Dru Hillery
Guthrie			Mrs. Walter Backhaus	Mrs. Walter Backhaus
Norman			Mrs. Mary Kemler	Mrs. Clara Ann Gentry
Oklahoma City		Perry L. Shelley	Mrs. Howard Estes	Mrs. Jane Dorn
Oklahoma City			Virginia Gregory	Virginia Gregory
Oklahoma City			Mrs. I. B. Franklin	Mrs. I. B. Franklin
Quartz Mountain			Mrs. George Huckaby	Mrs. Levy Parr
Stillwater			Mrs. W. E. Young	Mrs. Mollie Mosier
Tecumseh		Mrs. O. L. Sullivan	Mrs. O. L. Sullivan	Mrs. O. L. Sullivan
Tulsa		Mrs. Al Spencer	Mrs. Donald Ross	Mrs. Charles E. Kenney
	Dorothy Bridwell, Hort.	Matthew Bridwell		
	Alex White, Artistic			
REGION 23				
NEW MEXICO				
Albuquerque		Robert Goulding	Mrs. Milton Clauser	Mrs. Milton Clauser
Albuquerque			Mrs. T. E. Bertram	Mrs. Thelma Blackburn
Hobbs			Mrs. S. P. Hannifin	Mrs. S. P. Hannifin
Roswell		Mrs. W. H. McKinley		
REGION 24				
ALABAMA				
Florence		Mrs. A. D. Wilder	Mrs. J. Syslo	
Guntersville		Mrs. Floyd Garner	Mrs. B. W. Burton	Mrs. B. W. Burton
Huntsville		Mrs. Muriel H. Easley	Mrs. L. E. Roberts, Jr.	Mrs. Gerald Arnts
	Dawn Murphree, Artistic	Mrs. G. J. Detko		

EXHIBITION CERTIFICATES — AIS SHOWS — 1971

Alves, Julia: 64-279-J	Keppel, Keith: 67-7C, 66-13A,
Army, Charles W.: 1-RB-71	68-22H, 67-2C, 68-9C, 67-1A
Ashford, Mrs. Ida: 1	LaMaster, James: 70-18
Batson, Mrs. Ernest: KG-11, C-18, Y-9	Leavitt, Melvin: M-70-1, M-70-2,
Blodgett, Mrs. A. G.: 71-11	M-70-3
Brown, Mrs. F. Allen: 68-125	Leech, L. R.: 63-C-9-C
Bushey, Frank: B66-P-1	Luihn, Walt: 66-D
Caldwell, Calvin E.: C-174	Mayberry, George: 67-25-1
Carlson, Velma: 66-2A	McCaskill, Jack: F-70-124, 70-1
Carr, Franklin E.: 66-7-F, 68-4-A	McCown, Eleanor: 70-15, 71-18
Carrington, Thelma: 70-31	McNeel, Freda: 661319
Clark, Leo T.: C1, 67-C21A	Mertzweiller, Joseph K.: 62-137A,
Clark, Theda: 67-10	67-AC-43, 62-95C, 61-71A
Corlew, Alan: A4-9A	Miller, Mrs. Ronald: 67-8
Corlew, Curtis: C2-7A	Mogensen, Neil A.: I-164-4
Cromwell, C. A.: AM-A	Mohr, Dr. H. C.: 67-30-6
Danielson, Henry: 71-9, 71-10, 68-1	Moon, Mrs. Don: 125-3
DeHaan, Doris: 30-1-A	Nichols, Hooker: Amazon Princess
Dennis, Mrs. Zeh Jr.: 6712-9	Niehoff, James E.: 4F166
Dunbar, Bonnie: Velvet Toy, 73-65-4	Niswonger, O. D.: 27-66, 9-65
Dunn, Bob: B68-285A	Overholser, Mrs. C. D.: CM-XT-1
Dyer, Floyd M.: D-91-69-T,	Owen, Mrs. Ed: 70-2
D-159-69-T	Palmer, Cleo: A-7, 6961, 6976
Eader, Duncan: PCE-2-0	Plumley, H. Ladd: Night Sky
Ewing, Mrs. Robert Jr.: 61-31V	Puett, J. Donald: 10-66-37
Ferguson, Walker: 69-5 Big White	Rawlins, Dave: 68-24
Foote, Stanley: 66-2-11	Reinhardt, Mrs. Mattie: 71-5
Foster, Tom: C145A	Roach, Mrs. Lura: 68-78-A, 56-29-A
Frass, Bill: 69-3	Rogers, Mark: 66-138
Friedline, C. T.: 68-2J	Rossi, Anthony: B-66-D-12
Gadd, Mr. Fred: 6-C-42	Rudolph, Nathan: 68-40, 67-42
Gatty, Joe: Show Biz, 17-R, 6BB, 28-0	Satterwhite, Dale: 107x203
Ghio, Joe: Prophecy, P-12, WN-10,	Schliefert, Arnold: 66-34
Wedding Vow	Schmelzer, Hazel: 8-10-NE7
Goodrick, Mrs. H. W.: 119-7	Sexton, John C.: 1913
Graham, Tommy D.: 1-95-B	Sherrod, Herbert: 70-1-1, 65-20-7
Granger, Marvin: QQ66-45, 70-11	Smith, Donnel M.: 3-A-1
Hager, Ben: 2366W, 2241B, 2243C	Solomon, Raymond C.: 59-3A2
Hamner, Bernard: 67-25	Soults, Mrs. Ethel: 6403
Haney, Susan: 69-H-1A	Steinhauer, W. W.: 70-3, 111
Hanna, Harry: 267	Stinson, Mrs. Wynnaline: 2-71
Hawkinson, William: AB-67-94	Theurer, Mrs. Herman: T-1-71
Heisz, Mrs. Charles: 504-66-3	Van Valkenburgh, Mrs. R. P.: 430-71
Henkelman, H. H.: H-71	Walchak, F. A.: K68-1
Hickerson, Alva J.: H-68-24-1	Walker, Marion: S-23-71, S-16-65,
Hildenbrandts: 63-19	S-8-65
HILDENBRANDTS: 63-19	Warburton, Mrs. F. W.: Stockholm
Holden, John: Hd4b, Ha6b, Hd5b	Webster, R. L.: 40-71
Hooper, Mrs. W. R.: 5-16-68, 5-116-68	Whitten, Mr. and Mrs. Leo: W2-60
Hubley, Robert: 68-40-1	Williams, Mrs. N. W.: W-S-67-2
Humphrey, John: 0-1	Willott, Anthony: 70-41, Baby Dra-
Jones, W. E.: 67-11C	gon, WX-9
	Zurbrigg, L. and M.: 68-81A-6

MEMBERSHIP LIST

1971 \$1.50

American Iris Society

2315 Tower Grove Ave.

St. Louis, Mo. 63110

MAKING MEMORIES

Roger Nelson

One distinct element made the 1971 bloom season a most memorable one—my iris garden gave me the greatest quality and quantity of bloom I have ever had the pleasure of viewing. This was a season for maiden bloom of all the irises here; for the entire garden was moved to a new site last July and August. And the first-year bloom was most rewarding, surpassing all of my greatest expectations. In fact, the first-year specimens were far superior in their display and performance to any two- or three-year plantings ever grown on the original garden site. Thus, with 1971 being the special season it was, I was able to thoroughly examine and compare the habits and traits of both new and not-so-new varieties within the various color classes. From this study, I have singled out the following varieties as those irises that not only are worthwhile additions to the garden, but truly spectacular achievements in the continuing development of more superior cultivars.

ABSTRACTION (D. Palmer) I spent several minutes looking for a most appropriate word to describe this variety. The best term I could secure is *FASCINATING*. In a color class where many collections of colors are “loosely” being classified as “green”, I find this variety exhibiting more overall quality than any other. The form is of beautiful, balanced proportion, the substance heavy, and the growth rate ranks as ultra-vigorous. But most important—the blended greenish tan to buff yellow coloration looks clean and “alive” in the garden and not at all cast with that dirty haze seemingly so common in this class. Watch this newcomer rise to the top of this rapidly expanding color grouping.

AZURE GOLD (Hamblen) There are relatively few noteworthy bicolors in the warm, richly blended hues of this flawlessly formed new iris. When one sees this variety’s subtle colorings—soft golden yellow standards extending to smoothly blended violet-blue falls edged light yellow—he will share the enthusiasm many connoisseurs have for this unique variety. The colorings are so clean and fresh, a quality not always associated with this “breed” of bicolors. Like its illustrious parent, *LILAC CHAMPAGNE*, **AZURE GOLD** excels in the production of large healthy plants and strong excellently branched stems that often display three heavily substantiated flowers open at once. A most pleasing new two-tone whose tastefully blended hues will surely capture it the choicest of spots in the garden.

BETTY SHERRILL (Blocher) This large, delicate light lavender lends that note of serenity needed in any iris planting. The flowers are broad, clean, and produced in sequences of three. However, the real honor belongs to the stem, growth, and appearance of this variety. **BETTY SHERRILL** produces the finest S-curved stem I have seen in an iris, with an equal honor bestowed on the healthy, vigorous plant. The wide, very erect foliage is lush blue-green and remains in this attractive form even during hot, disagreeable June and July weather. A variety that is best described as a picture of exceptional health and vigor.

CHARMAINE (Hamblen) If one were running a rating of the properties of various iris varieties using a checking system as follows: X — Fair XX — Acceptable XXX — Excellent, my comments on **CHARMAINE** would read in this manner: Form — XXX Color — XXX Plant — XXX Substance — XXX Growth — XXX Branching — XXX. For three years, this iris has been

the beautifully formed, smoothly colored, healthy appearing, heavily substanted, vigorous, wonderfully branched example of excellence indicated by such a rating. A personal favorite of mine, CHARMAINE's luminous apricot-yellow color and smooth tangerine beard alone would qualify it as a worthy garden variety.

COUNTRY GIRL (Spence) Without question this is one of the leaders in the very popular orchid-lavender class. COUNTRY GIRL's orchid-lavender coloration is both bright and deep; yet it is cast with a nearly indescribable smoky blue-grape pigment that sets it apart from others in this grouping. Beautifully wide, near horizontal flaring form, with a combination of lace and abundant ruffles and a deep tangerine-red beard. COUNTRY GIRL produces excellently branched stalks and a strong, healthy plant. However, like its distinguished parent, FAIR LUZON, it develops rather sparse, short foliage—a minor shortcoming for a variety of dramatic coloration in a crowded class.

CREAM TAFFETA (Rudolph) This very large, heavily ruffled newcomer is endowed with so many outstanding qualities that it is likely to "smother" all other class competition. The huge flowers show near perfect form with extra wide, flaring falls. Having only a slight lemon tinge at the haft, CREAM TAFFETA is a true light cream self (not merely a white bordered soft yellow) that is unparalleled in cleanliness. Another variety that can be complimented for the vigorous plant and strong well-branched stems it displays. Add the extra heavy substance producing the "carved wax" effect noted in its introductory description, and one has a variety completely devoid of negligible faults. *Star bound!*

DISCOVERY BAY (O. Brown) While it may be a true enough statement that the blue class in irises is overcrowded, there are, fortunately, many shades, tints, tones and values of blue to consider. DISCOVERY BAY is destined for laud and honor as one of the most significant achievements in the blue-bearded blue category. Its specific color is wisteria blue, deepening to darker blue in the heart of the flower; and the beard, prominently displayed on near horizontal falls, is a soft medium blue. The moderately ruffled, touching standards and wide, flaring, less ruffled falls produce a symmetrically balanced flower. A first place contender in branching, too, with the tall stems yielding three branches and numerous buds. The gracefully flared flowers especially stand preeminent in this variety.

DUTCH CHOCOLATE (Schreiner) In describing this iris, I am placing it in the brown category—yet I hesitate to leave it there, for it almost appears to be deep red with some brown infusion. At any rate, falling somewhere between deep red and chocolate brown, DUTCH CHOCOLATE not only brings a richer, more sultry color to the browns; but it adds another first—crisp, flaring form. The substance, too, is much heavier than usual in this class, with a completely smooth sunfast color. A vigorous grower with poor branching and a heavy blooming tendency evident on a one-year plant. Nevertheless the color and form rank top billing!

ERMINE ROBE (Schreiner) At times I question the merit of a variety reported to be overlooked, for deep inside I have felt the slighted plant was probably quite weak in some major area. However, I must borrow this comment of neglect for the discussion of ERMINE ROBE. This iris has proven itself two seasons consecutively by producing very large, heavily ruffled, beautifully formed flowers of immaculate whiteness. During this period its plant habits have been exemplary. Three and four branches with three flowers opening at once and lasting three full days. Now, tell me, where has the publicity been to date?

GLOCCA MORRA (Mary Moldovan) With the guidance of a most significant and discriminating instructor as a son, Mary Moldovan has developed this distinctive new light blue iris. And if its display and performance this season becomes typical, it will surely take over first place in this color class. **GLOCCA MORRA** is moderately ruffled, beautifully formed, and endowed with the purest light blue coloring seen to date. The pristine clarity of petal color is further heightened by clean white beards and a diamond-dusted sprinkling throughout. A producer of strong stems with adequate branching and large healthy plants. Very late blooming; but have patience, the superior color and form will make the wait worthwhile.

HAPPINESS IS (Kamps) "White on white — like ruffles on satin." This is not a description of your Mother's wedding dress, but rather a very accurate account of one's reaction to this variety. **HAPPINESS IS** displays the ultimate in unblemished whiteness yet seen in this color class. Even the beard has no trace of yellow or "smokiness". The form is very flaring and the petals are wide and very heavily ruffled. Again the garden is blessed with a variety that produces a beautiful S-curved stem with seven to eight buds on a vigorous plant. Guaranteed to steal much attention from its highly rated, recently awarded class members!

LAUNCHING PAD (Knopf) This variety can only be listed with a description replete with superlatives throughout. In four years of carefully observing this iris, I can find no major faults in its growth, form, substance, stem, bud count, color, and texture. What is there left to consider?

NIGHT OWL (Schreiner) One should not let the late season of bloom prevent his viewing this beautiful new black. It was more than "terrific" here; and if it performs as well everywhere as here, it truly may be *the* paramount introduction in black. Although not as sooty in color as perhaps one or two others in this class, it takes no "back seat" in any other aspect. **NIGHT OWL** is the first black with pronounced ruffling—it is the first black with horizontal flare—it is the first black with a near perfect finish, that is, smooth even near-black coloration throughout—it is the first black to both grow and increase with great ease. Finally, it will not take a "back seat" to many (if any) blacks in branching; for it yields three exceptionally well-spaced branches with many buds. Absolute elite excellence!

PINK SLEIGH (Rudolph) After a variety has been showered with as much heralding as **PINK SLEIGH** was prior to introduction, it would seem to have an almost insurmountable task living up to such lavish praise. But **PINK SLEIGH** has let no one down in any respect. Its color is the very pinkest with much blue present; and this blue pigment present is the apparent answer to deepening the pink colorings to the human eye. The form of the flowers is very beautiful, with great width throughout and boasting an equally large amount of lace and ruffles. The color is further strengthened by a *true* red beard—not the everyday tangerine-orange found in a great many pinks. Faultless in the production of stems and branches, vigorous of growth, and above average for increase. A "high fashioned" color in a "high styled" iris!

RASPBERRY RIPPLES (Niswonger) Some color groupings linger along season after season with little or no new representation of significance and then suddenly along comes a variety in the class with so much "pizzazz" that everyone literally wants the variety at once. Such is the case with **RASPBERRY RIPPLES**. In 1969 when Mr. Niswonger released this variety, iris growers were well primed for a good new deep mulberry-rose; and **RASPBERRY RIPPLES** has more than fulfilled the need. Being actually a deep raspberry to mulberry-rose in

coloration, this is a lovely formed flower with light ruffling and moderate lacing. The plant is extremely vigorous with deep blue-green foliage; the strong, erect stems produce up to four branches in perfect candelabra fashion—eight to ten buds. A rough haft detracts little from the luscious deep coloring. The rugged “Paul Bunyan” type plant even seems resistant to leaf spot.

SAFFRON ROBE (Moldovan) Resembling the satin smooth finish of a new American automobile, SAFFRON ROBE’s nicely formed, wide, lightly ruffled petals bring a new lustre to the golden yellow class. The completely self-colored flowers are in reality a bright saffron yellow complemented so perfectly by thick brownish gold beards. SAFFRON ROBE develops very large, ultra-vigorous plants that increase well and has stems extending three well-spaced branches and terminal. The individual flowers may wither rapidly during very hot, humid weather, sometimes lasting only one day open. However, one will not find such unique molten coloration and satin-like sheen in any other golden yellow iris. And the large, extremely healthy plants are no everyday achievement, either!

SONG OF PARIS (L. Peterson) To repeat a phrase many Judges have exclaimed at various times—“It is rare to find two varieties introduced from the same cross ever displaying equal superlativeness. However, the unlikely has occurred in SONG OF PARIS. This cultivar matches its sibling GALA MADRID in all areas of general quality, including that elusive trait—distinctiveness. It is a glowing smooth medium to deep mulberry-violet (magenta-violet) self with very well-formed flowers of much ruffling and flare. The prominent beard is deep yellow. It displays an identical robust plant with good stem and height, choicely branched. The magic three-combination arises again—three flowers open at once, each lasting three days. This glossy variety is of equal grandeur in all ways, but in a color class almost entirely neglected in recent years.

TROPICAL NIGHT (Schreiner) Perhaps one can say we have not had such a rich, luxuriant two-toned development of similar coloring since Paul Cook’s release of TOLL GATE in 1959. Rich and luxuriant are the only appropriate words to describe the sultry blue standards and plush violet falls that characterize this variety. Even the smooth brownish blue beard lends this note of somber richness. The gracefully sculptured flowers are large, quite flaring, and displayed on well-branched stems of moderate height. Add that expected vigorous plant, and one can understand why this variety was voted the favorite seen in my garden by fifty-five irisarians and AIS Judges during the Region 21 Spring Tour this season. Very unique and eye-arresting!

TROPIC SUN (Hamblen) When Mrs. Hamblen produced ROYAL GOLD, she brought to the modern iris garden a new level of accomplishment in smoothness and depth of non-burning color in golden yellow irises. And now the garden can further profit by the addition of this direct descendent of ROYAL GOLD. Counting more as a true deep yellow than gold toned yellow, TROPIC SUN has inherited the ultra-smooth texture and heavy substance of its popular parent; but these features are shown in a larger, wider, more ruffled flower. Sturdy stalks effectively support the well-spaced branches. This variety will especially be noted for its “fired-up” color and “smooth as silk” finish.

WARM LAUGHTER (Schreiner) I am sure that I shall never tire of the rosy orchid color family of irises, especially when I can enjoy this color in a perfectly proportioned, beautifully ruffled variety like WARM LAUGHTER. Carefully studying my one-year plant, I could find nothing inadequate in the flower, stem, or plant. Since it now seems in vogue to predict future award winners, I must say that not only will WARM LAUGHTER be a sure Award of Merit winner; but

further, it will be heralded by connoisseurs and Judges alike as one of the greatest achievements *ever* in the orchid class.

WEST COAST (Knopf) Cautiously I checked as many new deep golden irises as possible this season; but to date, I find nothing to unseat this variety from the top of the class. Our Midwest bloom season was very cool and somewhat cloudy at the onset this year; and this weather formula may have revealed one notable fault present in this variety. WEST COAST's smooth deep golden color was marred by a strong smoked brown overcast during these cool days, producing a hazy, soiled effect. However, a day of summer sun soon expands the coloration to full deep golden yellow. Yet, due to this variety's other superior characteristics—super form, non-bleaching tendencies (to be distinguished from the “expanding or smoothening of color” mentioned above), and perfect stem, I fail to lose any enthusiasm for maintaining it with top of the class honors.

WIDE ACCLAIM (Moldovan) Listed as blooming during the midseason by its originator, WIDE ACCLAIM actually bloomed late here, and thus many Judges missed the magnificence of the variety. First, I will mention the stem—the variety's *only* weak point. Unfortunately WIDE ACCLAIM produces a rather poor stem with only five buds; but from this point all traits listed will be high ranking ones, especially for this class. The individual flowers are very beautifully formed and heavily ruffled with an even deep blue-pink coloration, including the wide, prominent beard. The coloring is really “hot pink” and no way flamingo-toned. And the bonus feature, that will make one nearly forget the inadequate stem, is the ease of growth exhibited by the plant, a trait still lacking in many new pink varieties. So smooth, so clean, and most important, so PINK!

WOODLAND ROSE (O. Brown) When Mrs. Tom Brown told irisarians that this variety would be a future show winner, she was kidding no one. The tall, husky stems of WOODLAND ROSE feature three full branches plus spur and terminal; and the arrangement of the branches is so balanced that a perfect modified candelabra effect is achieved. Three to four flowers open at once. Unlike many varieties introduced merely on the strength of superior branching, this specimen rates excellence for form and color as well, offering wide, beautifully ruffled petals of smooth rosy lavender with deep red beards. Its remembered virtue, though, will always read: The super-stem of the late garden!

I believe it was a great poet, writer of prose, philosopher, or perhaps fool who once said “One cannot live on memories for long”. While this paraphrase may apply to human relationships, it certainly does not apply to irises. For I am sure that I can dwell on the memories of these select varieties (all twenty-three of them) that made 1971 such a banner year; and the recurring thoughts of their individual charm and beauty will carry me through another winter—and that is truly a long time!

CHRISTMAS PRESENT
for
YOUR GARDENING FRIEND

A membership in the American Iris Society
Clifford W. Benson, Secretary

2315 Tower Grove Avenue

St. Louis, Mo. 63110

The Look of Love

The 1971 Iris Season in Review

Hooker Nichols

Every spring the iris growers in the greater Southwest await the opening of the first iris flowers in their gardens. Sometimes, even before the last snow has gone away the little miniatures poke their little heads through and shout with joy. From the minute that the first flowers appear you know that in just a few weeks you will have peak bloom. We were worried in our area whether or not we would have much bloom because of the lack of moisture, but a large snowfall the latter part of February into the first part of March saved our flowers. Whether you are a person raised in an iris growing family or you are attracted to them while driving around town, you will soon be bit by the iris bug. From the first minute that you even spend 10 cents or even as much as \$35 on irises you will be hooked. There is a popular little saying going around, "Love means you never have to say you're sorry". It's the deep eternal love that grows between an irisarian and his favorite flower, and each spring you can see the love in his eyes as he drifts through the iris patch. As soon as you see the 10 cent variety or the one that you spent \$35 on bloom you will never say you're sorry that you got that certain variety.

Our iris season started out with a big bang on March 12 this year. This was ten days early for our area. The first one to bloom for me was one of my seedlings out of BEE WINGS. After that the named varieties started coming. The miniature dwarf irises were lovely this year, though I didn't get to see very many. BUBALA (Gatty) was probably the most talked about miniature in my garden this spring. This is an odd fellow because of the deep blue hafts that accent the lovely bright white flowers. KNICK KNACK (Greenlee) is a dainty plicata with faint blue stitching. Loads of bloom on this one. CRISPY (Welch) was very good, a clean cool white, including the beard. One of Walter's best. BLUE FROST (Doriot) outdid herself. A lovely sky blue self with a charming white beard.

I saw a number of very beautiful standard dwarf irises this spring. I had some very nice seedlings and I have registered the following. N-68, out of BRASSIE X NYLON RUFFLES, has been registered AMAZON PRINCESS. From the first day I discovered it in the seedling patch I knew that she would go far. The over all color is lemon yellow with a vivid red-brown halo around the orange beard. She is 14" high and two branches make the five flowers that she averages show themselves very well. AMAZON PRINCESS was entered in the Sooner State Early Iris Show and she would have received Queen of the Show, but had to take first runnerup because she wasn't introduced. N-69, registered as OLIVER, is a real beauty, a cream self with a brown halo and a lovely orange beard. Also a runnerup at the Sooner State Show. N-67, which is being named AMAZON WITCH, is an odd baby, out of SHINE BOY X PASTEL GEM, and the over all color is an olive brown self and the beard purple tipped bronze. N-66 (ORANGE BLAZE X PASTEL GEM) will be named AMAZON PRINCE and is an old gold self with a brown wash at the haft.

The named ones that I saw and liked very well were: GYPSY FLIRT (Sindt), one of the deepest copper-red blends with a darker color around the violet beard that I have ever seen, very fine. MEADOW MOSS (B. Jones) was a show case in itself this year. Everyone who saw it was spellbound by its clear colors, lovely

forest green standards over the same colored falls with a cream haft. The violet beards are just what the flowers needed. MOON SHADOWS (Sindt), a much improved MOONCHILD with a lot more violet. PEANUTS (Hager); have had this little one ever since it was introduced and each year I like it better. The standards are cream color and the falls are peanut brown blending to the color of the standards at the hafts. The violet beards are great! PUPPET (Hager); I believe that this is Ben's most outstanding small iris. The over all color is deep lavender-blue, with mahogany hafts and a deep bronze beard. By far the most popular iris in my garden in the standard dwarf class.

SILKIE (Hager) is a deep indigo violet that is very tailored. WILD LIL (Shelton) was an odd devil. No two flowers are the same. The standards ranged in my garden from cream white to grey and the falls a pale green, or yellow, or a combination of both, and they are splashed red. FINE PRINT (Keppel) is a sister to FOOTNOTE and every bit as good, a lavender plicata that has grace and good growing habits. FOOTNOTE (Keppel) is about the only iris that was new to me that everyone really drooled over. Grey-lavender standards, falls deep plum purple bordered grey. How about that! A color that reaches out and grabs you. WATERCOLOR (E. Roberts) grows like a weed and practically blooms the same way. A yellow self with a deep brown halo. YOUNG LOVE (Schmelzer), a miniature red heart. Standards are cornflower blue and falls are deep red bordered cornflower blue. BRIGHT BABY (A. Brown). The name describes this iris. Orange-yellow standards and falls slightly darker. CARTWHEELS (A. Brown) is a cream with a pale brown halo and it's very nice. CHERRY GARDEN (B. Jones) is almost a smaller version of CAPTAIN GALLANT and is lovely in a large clump. IRISH LILT (A. Brown) has white standards and green falls with a white beard. MERRY SUNLIGHT (B. Jones) is a sunshine gold self with bright orange beard. PLATINUM GOLD (E. Roberts) is another sister to LENNA M and every bit as good. Gold standards and the falls are white bordered gold, and a gold haft surrounds the yellow-orange beard. Striking! RED HEART (A. Brown) took the garden visitor's hearts. The standards are lavender-blue and the falls are a bright oxblood red bordered lavender-blue. REGARDS (Hager); smoky orchid standards over maroon falls make this little creature a living beauty. Why can't all irises be as attractive as this one? BLOODSPOT (Craig), the minute that I saw this one I was so thrilled to have it in my garden. I had expected a very dull iris, but it is a cool red self with a blood red spot below the dark beard. A real heavy bloomer. GLEAMING GOLD (E. Roberts), a full sister to LENNA M and it is a rich gold self. Open standards on this one. LENNA M (E. Roberts), an apricot-pink self that is a step toward the pink standard dwarf. MYRA (Greenlee) is my favorite of Wilma's introductions, a lovely orchid-blue self and a great parent. VELVET TOUCH (Dennis) is an iris that came from our Region, a lovely deep purple self with a white beard. This one is a rapid grower and a heavy bloomer. GRACE NOTE (Hamblen) is deeper in color than LAUGHTER but the beards are about the same type. LAUGHTER (Stephens) is a delightful yellow self with a blue beard. EYE SHADOWS (E. Roberts) has to be one of the most favorite standard dwarf irises ever produced, a red-purple self with a red-purple halo around the beard. One that you will have to get when you see it. MARINKA (Dennis) is another one that is being discussed all the time and it also came from our Region. A delightful blend of deep gold washed with a blend of green and brown. Nice bronze beards. MOONBLAZE (Peterson) is a tan self with a blue blaze below the grey beards. Nice. ORANGE CAPERS (Warburton) is an iris that I fell for, a bright orange

yellow with an orange beard. SUNNY HEART (A. Brown), a fast growing white with a deep yellow halo, one of the best of its kind. TWICE BLESSED (Dennis), almost a yellow cream and those tangerine beards almost drive you nuts. Best of all, it is a dependable rebloomer in our area. WATER NIXIE (Vallette) is my favorite aril-med. Grey standards over green falls. Very interesting. ARRANGEMENT (Goett), the most improved KNOTTY PINE to date. A much better bloomer and a rapid increaser. BABY SNOWFLAKE (Peterson), cool white with slightly green hafts. BLUEBERRY MUFFINS (Warburton) is probably the most sought after iris in the dwarf and median world. Beautiful tan flowers are accented with blue beards. Its only problem is that it doesn't like to increase. CIRCLETTE (Goett), a violet plicata that has a tendency to bloom itself out. GREEN METEOR (Motsch). I have had more requests for this bright and unusual fellow. Lovely flowers have sky blue standards bordered green and green falls bordered grey-blue, and the thick blue beard adds the final touch to this beautiful flower. RICHSHAW (Hager) really made a bright spot in my garden. A deep yellow with a red halo. Very dependable. VELVET CAPERS (Warburton), a full sister to the famous BLUEBERRY MUFFINS, is a deep velvet blue-purple and the beard is almost midnight purple. A lot better grower than its sib. DEAR LOVE (Warburton), a very nice blue self with a white beard. NYLON RUFFLES (Doriot), one of the most dependable standard dwarfs I know of. Cream self with a yellow-brown halo. ROYAL THUMBPRINT (Stephenson) is a blend of pinkish-purple and a good bloomer. SKY BABY (A. Brown), a grown up BLUE FROST. SHINE BOY (Brizendine) is a very tailored black self and when the sun hits it just right you can see a faint pink glow. GOLDEN FAIR (Warburton) is my favorite standard dwarf next to BRASSIE. She is about the same color, but there is more orange and the flowers are very large. KNOTTY PINE (Goett) was superb! That tan and brown blend is hard to match. A fine grower and sometimes stingy on bloom. BRASSIE (Warburton). What can a person say about the greatest standard dwarf that has ever been produced? In my opinion this brass colored iris is worthy of the Dykes and I would like to see her get it some day.

The intermediate irises were very good this year. The ones that pleased me were the following: Hamblen No. M66-4-1 is the most "spellbinding" iris seedling in my garden, a baby ribbon pink self with a self beard. This is a clean flower and no haft markings. AZURE ECHO (Durrance). Very nice. You can say that it is a grown up version of BLUEBERRY MUFFINS. The beard is much bluer and wider. BUTTERSCOTCH FRILLS (Hamblen), a butterscotch self with lots of lace and ruffles. Non-fading in our sun, and a joy to behold. CLIQUE (Keppel), better than most of the smaller plicatas. A deeper version of PALE CLOUD. PALE CLOUD (Keppel), a very nicely formed light plicata. PINK REVERIE (A. Brown), a good approach to a pink intermediate iris. This was almost a hot pink in my garden this year. RASPBERRY ACRES (Greenlee); being a very deep colored raspberry plicata makes this one distinct in itself. LIGHT CALVALRY (B. Jones), a deep red self with deeper colored hafts. Nice in a clump. PREAMBLE (Keppel), a close approach to a amoena-plicata. White standards edged with blue specks at the base, and falls that are white bordered with blue plicata markings. COLUMBA (Tim Craig), a true violet self that likes to bloom itself out. SING AGAIN (Plough), a small SING ALONG, but a much better grower. ARCTIC FANCY (A. Brown), just a small STEPPING OUT and that's all. BEEBOP (Plough), my favorite intermediate. The standards are blue-white and the falls are bright gentian blue. The hafts are accented with a

blend of white veined olive and an orange beard makes the whole flower seem unreal. LEMON FLURRY (Tell), one of my favorite irises, a lemon yellow self with branching and bud count that can't be matched. LITTLE BIT BLUE (Plough). The standards are gentian blue and the falls are slightly lighter in color. A darker area surrounds the orange beard. A real charmer. PING PONG (Plough), almost a miniature MELODRAMA and the stalks all had two flowers open at once. DOLL TYPE (Hager), one of the most beautiful intermediate bearded irises I have seen in any garden. The flowers are displayed on beautifully branched stalks. Though it is not marked heavily, the stitching is similar to STEPPING OUT color. PINK PRIDE (A. Brown), a good approach to the pink intermediate bearded iris. A tangerine beard makes up for the oversized flowers. ARABI TREASURE (Burnett) really outdid herself. I have her in several places in my garden and each clump was loaded with bloom. The flowers are deep violet with a blue-purple beard and a darker halo around the beard. LILLIPINHPUT (Douglas), an apricot colored iris with a tangerine beard. This one can be seen clear across the garden and blooms for at least three weeks. Tremendous branching display the flowers perfectly. LIME RIPPLES (A. Brown). When I can get this one to bloom she does well. A green gold self.

I don't grow many of the arilbred irises, but the ones that I do grow usually bloom real nicely for me. I liked the following: ESTHER THE QUEEN (Hunt). Everyone has heard about this iris. Probably the most outstanding arilbred produced in the last decade. Standards are blue-green and falls are willow-green to an unusual mustard color. The thick rich black beard adds zest to the flowers. SONI CE (Peterson), a pale lavender self with a dark signal; very nice. MOONCHILD (Craig), a deep violet self with a dark spot around the violet-blue beard. Lovely branching. An excellent arilmed.

The border bearded irises were very fine this year. These impressed me. BABY SHOWER (Ghio), a small version of WINTER OLYMPICS and that's all you have to say. CARNIVAL GLASS (B. Jones). The name describes it perfectly. Everyone wants this iris after they see it. A good increaser. CUB SCOUT (Plough). An old gold self with a brown wash. Nicely branched stalks. LACE VALENTINE (Warburton), a clear pink with lots of lace and very nice stalks. SMALL TALK (Sexton), a small version of Ribbon Round. TULARE (Hamblen), a rich yellow with lace and ruffles. JUNGLE SHADOWS (Sass). Speaking of the devil. By far the most ungodly looking iris that you have ever seen. You hate it at first, but by the time you leave the garden you have to have it.

Since I didn't see many tall bearded iris this year I will have to tell you about the dependable varieties. DANCING EMBERS (Martin), a real knockout. The color is a deep bronze-brown and the branching and bud count are excellent. Non-fading. JEWEL DROP (Rogers), a better and improved version of ORCHID JEWEL. A rather short tall bearded. JUANITA T (Tallant), sea blue self with excellent plant habits. STEP CHILD (Hamner '69), almost a border STEPPING OUT. Excellent. CALIENTE (Luihn), a nice red self with a bit of gold at the haft. Non-fading. NEW MOON (Sexton), a lovely deep yellow self which is like new moon on a summer night when you are spending the evening on the beach. ROYAL HERITAGE (Luihn), just the purple that we all have been waiting for. SUMMER DAWN (Z. G. Benson), a peach pink self with graceful form. CHARMAINE (Hamblen), a much improved MAY MELODY. THRESHOLD (Hamblen), a lobelia blue self and a tangerine beard makes me like this one a lot better than I like MARQUESIAN SKIES. DUSKY DANCER (Luihn), that black



Alan Johnson and Ira Wood Get Down to Take Pictures



Miss Lisa Drumm and Mrs. Jim Drumm in the Wayne Drumm Garden (Stillwater, OK.)

that we all like and it has the growing habits that we all like. MARSHMALLOW (Olson), a cream white self with a gold haft. The best of its type. CELESTIAL SWAN (Terrell), a pure white self with some ruffles added to make it more enjoyable. LAURIE (Gaulter), a much improved AMETHYST FLAME with better growing habits and a lot more pink added. LIGHTNING RIDGE (O. Brown). Peach pink standards, and rose-violet falls. NINEVEH (Keppel), that oily red looking blend that everyone fell for. Keith's best. BABBLING BROOK (Keppel), that sea blue iris with darker lines in the falls. Very outstanding. BLUE PETTICOATS (Schreiners), a light blue plicata that is very showy. CAMELOT ROSE (Tompkins), orchid standards and velvet falls; that "oranger" beard makes the whole flower. DEBBY RAIRDON (Kuntz), yellow standards, falls white bordered yellow. I'd like to see her get the Dykes. GRAND ALLIANCE (Plough), the most beautiful spectrum violet self. GRAND SPECTATOR (Haney), by far the most outstanding cinnamon plicata ever produced. MAY MELODY (Hamblen), pink-yellow standards and white falls bordered pink-yellow, and a tangerine beard. Superb! ROSEANNE (Plough), very similar to MARY RANDALL and the pink has been strengthened. HEARTBREAKER (Hall), still my favorite true pink. Very hardy here in Oklahoma. STEPPING OUT (Schreiner), the best Dykes Medal that has ever been produced. That deep purple stitching is very good. WESTERN SUN (Harris), just the perfect picture of an Oklahoma sunset with the rich gold sun peaking at you through the leaves of a quiet forest. BON VIVANT (Plough); buff colored standards and plum colored falls make this iris a real winner. MUSIC MAKER (Walters); the ruffled sky blue flowers were excellent and the stalks were well branched. WINTER OLYMPICS (O. Brown) is still the best white iris around and will be for a number of years. JACQUELINE K (Innes), not widely distributed but excellent, a deeper colored CELESTIAL GLORY with a shrimp-tangerine beard. NEW FRONTIER (Sexton), beautifully branched stalks show the laciest pink flowers off real well. ORANGE PARADE (Hamblen), a marigold self that hasn't been

matched in color yet. PACIFIC PANORAMA (Sexton), a blue iris that did indeed deserve the Dykes. A touch of ruffling makes the flower beautiful. EARTH ANGEL (Sexton), a sib to PACIFIC PANORAMA but not widely grown.

As you can see from the above comments I saw quite a few irises this past spring. I had iris blooming for about two and a half months and that was good for our area. We had another successful iris show in our area and I again won Queen of the Show with WINTER OLYMPICS. This was my fourth year in a row to receive the honor and I have won with WINTER OLYMPICS three times and once with CORABAND. With all the new irises that I am getting this summer I am looking forward to seeing bloom time 1972.

Comments from the Northeast

Ira E. Wood

It was a good year! The SDBs were blooming on the first of May, and the terminal flower on the last TB stalk in our garden here in New Jersey opened on June 23rd. Peak bloom was between the 6th and 9th of June—about a week later than our normal season. Those of us who were fortunate enough to visit the magnificent Wichita gardens were delighted to have SDBs and IBs in full bloom when we returned from the Convention. However, our exhibition chairmen were not pleased with the lateness of the season. The shows were well staged, but there were fewer entries than usual.

My notebook is filled with comments on the many new registrations and introductions we saw at Wichita. I was particularly impressed by all of those stalks with three branches and a high bud count. Among the irises I want to see in our garden some day are: BURNING DESIRE (Hamner), EAGLE HARBOR (Brown), FLAMINGO FLING (Hamblen '72), and two numbered seedlings from Jesse Wills (54-67, a yellow amoena, and 118-68, a blue amoena). However, none of these were seen in the Northeast and reports on the Wichita gardens appear elsewhere in the Bulletin.

Interest in median irises and Siberian irises is increasing as the very rapid improvement in the non-TB classes proceeds. The SDBs grow exceptionally well in this area and many gardens have excellent collections. The Warburton garden was in peak bloom when we visited it late in May. I particularly liked the following.

COTTON BLOSSOM (Jones) is registered as a white-white self but my eye sees enough yellow to call this very attractive little flower a warm white. It is nicely ruffled and has a white beard.

CHERRY GARDEN (Jones) and RANGERETTE (Hamblen) are very good reds from the violet side. TOMINGO (Roberts) has very good red color from the orange side.

SPICEWOOD (H. Stevens) is a nice copper-tan blend with three buds and jaunty flowers. ORANGE CAPER (Warburton) is always a bright spot of color in the garden.

THREE SMOKES (Warburton R. '70) is a very distinctive flower with an odd greenish-gray color. Gold in the hafts and a blue beard complete the picture.

LACED LEMONADE (Warburton) is a pale yellow bitone with a white beard. The flaring falls have some lace and the standards are closed nicely.

GINGERBREAD MAN (Jones) is a very fine brown with a blue beard. It blooms well and you will be astonished when you first see that blue beard.

In the Warburton garden we saw several SDBs that are almost ready for introduction. 87 N-1 is a remarkable blue bitone. The standards are medium blue and the falls are so pale that they appear to be almost white. Bee also has a yellow with a blue beard which may be named Stockholm.

The new IBs deserve a place in every garden. Great progress is being made. INDIAN FIRE (Greenlee) is an excellent red, registered as a self, but conspicuously marked with a darker red spot in the center of the falls. (I would have described it as a red bitone with a border on the darker falls that matches the bright red standards.) INDIAN DOLL (Greenlee) is a smooth red self that will be preferred by many for its clean color and good growth habits. LIGHT CAVALRY (Jones '67) is a prolific bloomer with fine brick-red color.

Siberian irises are being grown in more gardens each year. The Northeast is fortunate to have a group of distinguished hybridizers that includes Fred Cassebeer, Currier McEwen and William McGarvey. We also have a favorable climate for growing Siberians. DEWFUL (McGarvey), and SUPER EGO (McGarvey) are spectacular. Both flowers are large. DEWFUL, winner of the 1970 President's Cup, is a medium blue self and SUPER EGO is pale blue, shading almost to white. WHITE SWIRL (Cassebeer) has been the most popular white for many years. Currier McEwen has been working with colchicine-induced tetraploids and has registered two second-generation tetraploids, FOURFOLD WHITE and ORVILLE FAY. These new plants are growing well in our garden, but we have not seen them in bloom. Bee Warburton has a long row of Siberian seedlings that have survived the colchicine treatment. With a bit of luck she will have some new tetraploids some day.

SHIPSHAPE (Babson) heads my list of TBs. It is a massive flower with fluted standards and overlapping falls. The medium blue color is unsurpassed. SAPPHIRE HILLS (Schreiner) is another approach toward true spectrum blue. We saw one bud at Wichita (which was partially opened by Bob) and were sufficiently impressed to plan to make a direct comparison between these new blues in our garden next year.

CROSS COUNTRY (Knocke) has been one of my favorites since it first bloomed in Doctor Knocke's field. Now its descendents have the center of the stage. VIRGINIA LOUISE (Knocke) is a light violet self with a bit of white at the haft and a pale yellow beard. WITH IT (Knocke) is a light blue with a white beard tipped with yellow. Both irises have inherited vigorous growth habits from their distinguished ancestor. Both have exceptionally wide hafts and are nicely fluted and ruffled.

BRISTOL GEM (Leavitt) is another good performer from New Jersey. The flowers are huge and the dark blue color is an asset for any garden. One of its descendents, BLUE CHALICE (Leavitt), is also dark blue. Unfortunately it has not bloomed in the Convention gardens, but it is well liked here.

CHERRY JUBILEE (V. Wood), a stately white self with flaming red-orange beard, performed as well in New Jersey as it did in California. Many of you may remember this tall, three-branched, white seedling as Wood 66-40 in the Hotel Claremont garden at Berkeley. This fine iris received more recognition than any other TB in 1968, with 42 votes for HC. I remember it well since the coincidence of the surname brought several undeserved compliments until Vernon put a V before the Wood on the label.

Several fine yellow irises were seen this year. ON TARGET (Knopf), WEST COAST (Knopf), and NEW MOON (Sexton) are all magnificent. ON TARGET was impressive at Wichita and will surely be popular in the Northeast soon. The other two have been standing proudly in some of our gardens for a season or two. All three are vigorous plants, and each one has a flawless yellow color that will be a beacon in any garden.

Catharine Smith has a superb new yellow iris which is a worthy addition to the long succession of yellow irises from her Staten Island garden. MAUI MOON is a pretty name for a pretty iris. It is a light yellow self with a full yellow beard. With three huge, well-placed flowers open on a stalk it will be a contender for "Queen of the Show". Only a dedicated garden judge would wish for more buds.

LIME FIZZ (Schreiner) is a heavily laced, light yellow self with a darker yellow beard. This iris has been beautiful wherever I have seen it growing. Although the color is excellent I would prefer less lace.

PINK FRINGE (Rudolph) was a sensation at the New York Convention. This iris grows well here, and I think it has the best color of any of the pink irises. The falls may be a bit too long but that pink beard compensates for a minor fault.

Almost all of the "pink" irises are smooth blends including some orange or yellow rather than being the pale red that strict adherence to the color chart requires. OVATION (Tompkins) is almost a true pink. Since the brilliant color makes all others seem pale, it has been described as a light red rather than a pale red. Substance and color are great and progeny from this iris will be very interesting.

It was a good year! And it was difficult to select the particular irises for these comments. The final choices were made simply because these are the irises I liked.

The Proof of the Pudding

Joseph J. Ghio

A normal season? Hardly, but we are beginning to believe that the abnormal year is the normal. Warm weather in February and March indicated a very early season, but the onset of cool weather in late March had the effect of extending our season to one of the longest on record in California. Consequentially, colors seemed to be deeper; flowers larger and more heavily ruffled this year.

SHIPSHAPE (Babson) was probably the most spectacular iris in the garden this year. Huge semiflaring medium-blue flowers with light ruffling mark this creation with that certain something that indicates the exceptional—the stuff Dykes winners are made of. Well-branched and very vigorous. For us it is a dependable fall bloomer as well. A complementary color and iris is NEW MOON (Sexton). Another with the stuff of Dykes winners. A glowing lemon-yellow with tremendous bud count, branching and vigor. If there were only two irises we could grow, these two would be the ones.

GOOD GARDEN IRISES. Lavender-toned irises have come far in the last few years. SAN LEANDRO (Gaulter) is a superior iris in an area that we Americans tend to overlook, or at best underrate: garden value. San Leandro will produce an instant clump with several stalks in one year. The metallic lavender flowers cover the clump on well-branched stalks which bloom over a four-week

period in our garden. In contrast, a top-award winner in the same color class produces one stalk (if the stars so deem) that is gone before the week is up. Another good garden-value iris is FAVORITE TOPIC (Schmelzer). A frilly lavender bitone that grows very well and blooms over an extended period of time, also.

APROPOS (Babson) is a pastel lavender with heavy substance, plenty of buds, and lots of vigor. Its color is not as spectacular as some, but it is a joy in the garden and on the show table. FOND WISH (E. Smith) has finally been discovered. A very frilly lavender-orchid with fine branching and bud count. Its only problem is that it blooms too heavily and reblooms in quantity in the summer in California.

VOGUE COLORS. PINK SLEIGH (Rudolph) was much discussed and seen early in the season. We were quite prepared to dislike it for its very open standards. Yet, later in our garden, the standards were informal but so ruffled that they were not unpleasant. The color was a strange, though appealing, blue-lavender-pink. Branching buds, et.al. were just fine. FLAMINGO FLING (Hamblen) is another of this new coloring we call "flesh-orchid". This is the third year we've grown this iris and the color, form, branching have been just fine. However, in cool weather the color is not as appealing as it is in warm weather.

SPANISH GIFT (Shoop) is the finest all-around "orange." Very vigorous and floriferous and can be called an everbloomer on its record in Santa Cruz. The standards are a bit open; but, nonetheless, this iris should be much higher rated than it is. Another underrated iris is SWEET LORRAINE (Plough). We look on it as a peach version of Debby Rairdon. It blooms quite late and isn't quite as vigorous as some of the others we've discussed so far. DANCING SUNBEAM (Palmer) is another pleasant iris with much garden value. A lilting bloom done in shades of white and yellow. Quiet and appealing.

SURPRISES OF THE YEAR. The two most pleasant shocks of the year were RED PLANET (E. Smith) and ADAMSBLACK (Craig). The former blooms late and is a very large somber crimson of spreading form and lots of ruffling. Most important in the red class—it is VERY vigorous; 8-10 increase in one year is the rule. ADAMSBLACK on the other hand blooms very early. A red-black in the Edenite tradition. Most important in black class—it is multi-budded.

DUTCH CHOCOLATE (Schreiner) bodes well of being the best brown to come along in years. A deep reddish brown with some ruffling. However, on its first year with us, it gave indication that it may bloom too heavily. COMMENTARY (Babson) is not new but is so unique and dependable that everyone should grow it.

SOME GOOD "OTHER THANS". Three border bearded impressed us; DRESDEN FRILLS, KNEE HIGH, BOY SCOUT. DRESDEN FRILLS (Rudolph) is the "yummiest" iris we've encountered: A peaches and cream blend of super ruffled form. At the top limits of this class, but it gets a four-star rating from us, anyway. KNEE HIGH (Noyd) is underrated. A nicely formed white with coral beard which has always bloomed within the class for us. BOY SCOUT (Reynolds) is a smooth khaki-colored iris which has excellent proportion and "kook" appeal.

Among the SDB's, TEBBY DARE (Wolff) is another muted khaki-colored iris with a muted red halo. Fine form and blooms with the TBs. LADY (Warburton) is the bluest yet. Super form, but it had but one bud per stalk here. CON BRIO (Warburton) looks to all the world as a IB version of Nineveh. A rich

and appealing blend of red, blue, and violet. SCRUMPTIOUS (Clark) was our favorite arilbred. It is just that: scrumptious! An exotic blend of blue and green with a stunning maroon signal.

BEARDLESS GOODIES. Our favorites in each of the commonly grown beardless classes are as follows: GRAND JUNCTION (McCord) is a wide, beautiful shade of blue Siberian. Most important in California is that it is an easy grower which covers itself with bloom. VALLEY BANNER (Hardy) is a stunning Pacifica. Basically a white with a blue flush up the midrib and blue veining over the entire fall; the stylearms are brilliant blue. A clump of this one is overwhelming. Imagine, it was collected in the wild!

HIGHLINE LAVENDER (McCown) is an easy grower. In our garden it blooms profusely and increases like a weed. The finest form of any spuria we grow. Lavender-blue with muted yellow signal. Louisiana irises have made great strides recently. In our garden, ILA NUNN (Army) stopped them in their tracks. A 40-inch flower of cream with heavy substance—gorgeous! Louisiana irises should be more widely grown since they contain some of the most vivid colors in irisdom which fairly glow in the dark.

Already our gardens are being readied for the 1972 season. From it will evolve a new list of favorites—we can hardly wait.

Median Varietal Comment

Bee Warburton

When our editor asked me to write some varietal comment, he sent me an example of the sort he wanted, which was in line with the popular motto, "Be Kind." This emphasizes the delicate balance involved in such published description since giving praise where it is not due is anything but kindness in the end. The ancient gambit is to name the good points of the iris, and then follow with the damning BUT. Or one may praise with abandon one quality which is truly good, and damn the mediocre with silence or the classic faint praise. This requires more tact than even the best judges can always muster.

It has become increasingly clear that each judge, and particularly each hybridizer, has his own pet fault that he will not excuse. Some won't excuse over-large size of flowers—others love it. Some won't excuse excessive foliage; others overlook it if the flowers are good enough. Some must have width of falls, and standards touching at the tips, others don't give a fig for form as long as the color is bright. We condemn irregular color patterns, but HEY LOOKY with its bright blue splashes, no two petals alike, is everybody's pet. To name in varietal comment any one flaw is to be accused of condemning the iris, and yet its faults are exactly what the reader can't find out until he sees it growing, usually after he's put out his cash for it. Varietal comment that leads a reader into buying an iris with the very fault he cannot overlook is no better than a catalog blurb.

Maybe our editor will let me by if I am careful what irises I use to illustrate some of the faults in irises. I dare mention RUFFLED CHERUB because May Belle Wright, with supreme courage, has reregistered it as small TB, rather than BB. As a small TB it is an excellent variety, and not out of proportion with overlarge flowers. Its pale blue, elegantly ruffled flowers are in perfect proportion to its height, but it DOES grow 30-32 inches. If its stems were shortened to 27 inches nobody could deny that it was registered "in class," but

it wouldn't be anywhere near as good an iris. And I should be permitted to tattle on my own irises; LACED LEMONADE, though having handsome clear bright yellow flowers with the first real lace in SDBs, has the grossest, most overgrown foliage of any iris I know—alas! And LADY'S wide shapely blue bedazzled me into ignoring its shortness of buds and brevity of bloomtime.

As for a motto to write an evaluation by, I think "Be Fair" would mean much more than "Be Kind," the actual meaning of which is "Do Not Be UNKIND!" People are normally kind to friends, and unkind to the enemy or to strangers. It seems to me that the first thing a judge must learn is that an iris does not improve because a friend originated it, or become ugly, or worse—invisible, because a nonfriend originated it.

The experienced judge doesn't expect ANY variety to be perfect, and he knows that the one quality which excuses any flaw is the indefinable, personality. In the following I have included only irises which to me have this quality of distinctive charm, and which I love in spite of their faults, and indeed, sometimes because of them.

(Editor's note: These comments illustrate something of what we think Bulletin readers want in varietal comments. 1. No iris ought to take space in the Bulletin unless it has features which make it a desirable garden plant. 2. We have not seen the perfect iris. 3. The iris described may have faults, which should be noted, but with the understood connotation that its desirable features still make it an iris worthy of comment and growing. 4. A varietal comment should be something more than an imitation of a sales pitch; readers should be able to get a mental image of it, good points and faults. After all, we all grow irises about which we exclaim that we wish it had certain improved features, but we grow them because the strong features overbalance the faults. We just happen to think that readers have a right, in varietal comments, to see in words the iris, both strong points and faults, knowing at the same time that over all it is a good iris to find its way into a Bulletin varietal comment.)

STANDARD DWARF BEARDED

BLUE MOSS. (Jones). Standards handsome shade of medium violet-blue, and falls with more violet and mossy olive-green patch. Beard matches falls. On the small side here.

BOO. (Markham). Crisp clean white with pattern in falls of deepest blue-black; not a blotch, but an artistically applied bold pattern; white beard. Form is wide and flaring with some tendency to open standards.

CHERRY GARDEN. (Jones). Registered as pansy purple, but seems more on the red side; a superb glowing color with beard an exact match. Flowers tend to grow a bit large.

CIRCLETTE. (Goett). Heavily stitched plicatas are rare in the SDBs, and this one remains the standard for the pattern. Rich violet on white.

COTTON BLOSSOM. (Jones). Ivory and gold; gorgeous shape. The gold is in the midribs of the standards and at the shoulders. As seen so far, its size and proportions are perfection, and its shape is delightful with round ruffled falls flaring almost horizontally, heavily ruffled standards, and superb substance and finish. Can it be that flawless?

DACHE MODEL. (Roberts). This one was small here; charming in yellow-pink stands and pinkish yellow falls with tangerine beards.

DARK SPARK. (Sindt.) Charming dark iris with good foliage and stalk, pretty shape with ruffled edges and flaring pointed-type falls in deep rosy purple with velvety deep purple spot and bushy blue beard.

DEIRDRE. (Gantz). This one, registered as red-violet, looks more violet to me. It makes a fine clump, has nice wide shape and lively violet beard.

DEMI. (Stephenson). Neat small white with greenish influence that has charming presence and has been overlooked. There aren't that many good whites!

DOLL APRON. (Goett). Best formed of the SDB plics, in white-white with violet markings and violet stylearms; a charmer.

DOVE WINGS. (Roberts). Dovey soft flesh pink with tannish-rosy fall patch, this one is difficult to describe. Fairly wide, with fluting and stands open enough to show the very bright tangerine of the inside beard; the outside beard is blue. Really a breeder's iris; scarcely flashy as a garden plant.

FAIRY BALLET. (Sarro). Beautiful flowers perfectly shaped and ruffled in light rosy purple-red with velvet red fall print and bushy blue beards. Fine proportions and neat plant in good garden color.

FINE PRINT. (Keppel). Pale markings on white color the stands and hafts of the falls. A rather tall variety but with neat proportions.

FOOTNOTE. (Keppel). Near amoena with grayed standards and reddish violet falls with yellow beard; makes handsome clump with many stems; tall like its sib Fine Print.

FROSTED ICE. (Roberts). Bluish off-white with pearly stylearms, white beard with green texture veining below giving it individuality. A charmer.

GINGER TART. (Riley). Though registered and introduced as MDB, for me it grows very definitely SDB, and is a beautifully shaped and ruffled yellow plic with darker yellow beard. It is 12 inches, with branch; three buds.

JEALOUS BELLE (Edwards) and BLUE MARTINI (Moldovan). These two irises are both described as pale blue with green fall patterns. BLUE MARTINI has more width, but no blue . . . it has always been white with green spots here.

KENTUCKY BLUEGRASS. (Jones). Shapely green-yellow self more green at the shoulders, and with a splendid blue beard. Gives quite a green effect.

LILLI-WHITE. (Welch). This older white is here because it remains distinctive in form and purity of its whiteness. A lovely iris I'm always happy to welcome.

LITTLE CHESTNUT. (M. Brizendine). Excellent vibrant brown coloring is rare in SDBs, and this one is notable for the warmth of its coloring. Well named and nicely shaped, too.

MANDARIN JEWEL. (Roberts). This latest of the unique Roberts' tangerine bearded SDBs is the nearest to orange with deeper orange and some brown in falls, and bright red beard.

MEADOW MOSS. (Jones). Green-ivory standards, moss-green pattern in the falls, bright violet beard.

MOONBLAZE. (Peterson). An overlooked beauty perhaps because beige, even as smooth as this and set off by equally smooth pale oyster-blue centers to the falls, is not a favorite color. Its petals are wide enough to compete with the latest flower form.

ORNAMENT. (Hager). Exquisite light violet-blue with deep violet contrasty spot of a distinctly authoritative pattern around the end of the beard.

PAGAN BUTTERFLY. (Roberts). Delightful form in bright yellow with white beard and orange-yellow pattern in the falls.

PANSY TOP. (Hamblen). Shapely and of excellent proportions, on the small side, in a harmonious bitone-bicolor with blue-violet stands and more reddish violet falls, with beard to match the stands.

PIXIE PLUM. (Hamblen). Lighter, less red and more bitone than its sister, Rangerette, with the same color beard. Good garden effect.

PUPPET. (Hager). Light lavender-blue of a pretty value with green-brown brushings at the shoulders; a small one and cute.

PURPLE MINI. (Kuesel). Beautiful value of lavender-purple with appealing

form of domed stands and outflung falls. Clean, with matching beard.

QUAIL. (L. Craig). Lovable small version of the table iris, only 10 inches, with clear golden-brown stands and falls white in center and sharply marked with brown.

RANGERETTE. (Hamblen). Deepest concentration of red coloring with a nice fall etching of nearly invisible whiskers, blue purple beard, and a beautiful flare with tip-pointed falls.

REGARDS. (Hager). Stands grayed rosy violet (smoky orchid in registrations), falls redder with velvet, and beard matching the stands. Small and always neat; a winning little iris with garden attraction.

SPICEWOOD. (Stevens). Coppery-tan blend with fine shape, broad stands ruffled and incurved, falls almost horizontal, deep gold beard. Has long bloom season.

STARFLIGHT. (Hamblen). Delightful flaring form with lilting fall tips and arched stands, in a green-yellow with a real yellow-green spot pattern and a very deep purple contrasty beard.

SUNLIT TRAIL. (A. Brown). Wide ruffled yellow, good bright color, with a yellow-tipped blue beard.

TOMINGO. (Roberts). Very much like Cherry Garden for form and habit, but somewhat more brown-red and hence appears redder. Purple-red beard.

TOWER GROVE. (Wolff). This has lovely flowers, clear ivory with gold shoulders, and it is greatly admired in part because the flowers ARE large. They are, in fact, intermediate flowers as is its breeding, and it is registered as 15 inches, which makes it IB according to the book. Shall we overlook the judging dictum that calls for, above all, good proportions?

TRES JOLIE. (Hoffmeister). Here we have the classic blue with deeper blue pattern in a modern version with width and a decided fall spot neatly divided down the center line, and with a long period of bloom.

VELVET TOUCH. (Dennis). A touch indeed! Red-violet coloring of the flowers is bright and clear, and the beard is enormous in lavender-blue.

WATERCOLOR. (Roberts). Light yellow variegata with large smoothly washed brown falls overlaid with heavier etching of veins, and leaving only a narrow edging.

YOUNG HEART. (Schreiner). Brightest of clear yellows with most contrasty of deep blue beards, with narrower falls than some but bright and perky.

INTERMEDIATE BEARDED

AZURE ECHO. (Durrance). Wide, horizontal flowers in pale yellow faintly blended with blue which shows faintly in the fall centers; deep blue beard.

BALDWIN'S ACE. (T. Craig). Good dark red, excellent grower and well-formed flowers with wide ruffled falls and nicely held erect standards; three buds.

BEE BOP. (Plough). A rather tall but handsomely proportioned and floriferous amoena from Whole Cloth; fine garden value. Gordon says grow it with Sing Again, his contrasty bitone yellow, for a pleasing effect.

BORDER CREAM. (Tell). This is the same coloring as ELLEN Q in an intermediate; cream with gold shoulders, ruffled, wide and round.

CLIQUE. (Keppel). Small and dainty white plic narrowly stitched with violet; a small IB with charm. White beard.

DOLL TYPE. (Hager). Also delicate violet on white; very pretty with quite heavy shoulder stitching and violet beard.

EARLY EDITION. (Keppel). Short with rather large flowers for its height, with wide ruffled falls, violet on white with sanded stands, violet marked hafts, and narrow edging on the falls.

FLARETTE. (Plough). Shapely aphylla hybrid in dark-dark blue-violet, with velvety falls flaring, rounded and fluted, and mustard-yellow beard. Two branches. Rather a slow grower here.

HEAVENLY STAR. (Greenlee). Pearly blue-white, more bluish in the falls, with gold across the shoulders and light blue beard; a smaller IB and so far seen, well proportioned.

JUNGLE KID. (A. Brown). Mowgli, not Tarzan, a paler blend than Jungle Shadows; in parts a smoky mustard blending of purple and light brown. These strange ones are attention getters.

LIGHT CAVALRY. (Jones). Bright brown-red with fine form and well proportioned; not a rampant grower but makes a nice clump. On the small side.

ORANGE RIOT. (A. Brown). Wide and shapely, and a good extra bright apricot-orange, with outstanding orange beard.

PALE CLOUD. (Keppel). Also on white, marked with pale lavender-blue sanding and stitching, giving the effect of a blue-shadowed white with wide, ruffled round flowers.

PINK REVERIE. (A. Brown). Strong pink which carries beautifully; is enhanced by rather blued effect. Falls are semiflaring and ruffled. Nice plant and proportions.

PIXIE SKIES. (Hamblen) and **SEA PATROL** (Palmer). The new blue IBs are fine, and these two are excellent. **PIXIE SKIES** is a bit deeper in color and **SEA PATROL** perhaps somewhat wider. Both are timely additions to a wanted color class.

PREAMBLE. (Keppel). Called an amoena-plicata because its icy-white stands have no markings; the white falls have medium violet plicata edging. Shapely and ruffled.

SLUMBER TIME. (Guenther). Very dark violet, with darkly blended beard.

BORDER BEARDED

AMBERITA. (Plough). Latest in the excellent small browns from this hybridizer, this one has not overgrown here, and is a slightly bitone brown with bright golden-brown effect and orange beard, with flared and ruffled form.

BOTANY BAY. (Jones). Good BBs in solid full blue are scarce, and this one is a good grower which makes a fine clump.

BOY SCOUT. (Reynolds). The famed Jungle Shadows, which is a dark gray-brown blend, tends to overgrow, but we haven't seen this child overlarge. It is a paler blend than its parent, with olive tones in its brown.

BRIDE'S PEARLS. (A. Brown). Lacy, wide and shapely, in a pearly off-white with yellow at hafts and pale yellow beard, this one does tend to expand its flowers out of class, but they are lovely flowers.

CARNIVAL GLASS. (Jones). Just the color of the Woolworth glass pieces which became collectors' items, a light golden brown with hint of blue and slight red flush; stays in class at 25 inches, and has four buds.

CRYSTAL BAY. (Jones). This one, in warm white with full blue-violet edging on the falls, is the absolute in a criterion for the class; perfectly balanced and proportioned with charming flowers, it makes a satisfying presentation of the desirable in a border bearded iris.

HOROSCOPE. (Beattie). This one is registered as TB, 28 inches, and may be

slightly tall for best BB representation, but is still more in line than many registered as BB. A lovely deep violet with velvet in the falls and a delightful flare.

MEXICALI. (Keppel). This has actually had overlarge flowers wherever seen in '71. but what bright, peppery, attention getters those flowers are! The plic pattern in the falls is brightest red on straw yellow, with yellow beard.

MISS RUFFLES. (Wright). This one stays in class, with ruffled pale blue flowers somewhat blended, and in good size.

NEW DEW. (Wolff-Hildenbrandt). Has been an excellent size wherever seen, with intriguingly attractive pale blended flowers showing more violet in the falls, with gold hafts and beard.

PEBBLES. (Tucker). A prizewinner which often overgrows, with beautiful flowers, nicely ribbed standards strongly flushed blue in the heart, and round white falls of heavy substance, with white beard. Multiple bloomstalks make for plenty of bloom.

RAIN POOL. (Jones). Small light blue flowers, slender graceful stems, and fine proportions, with a delightful fragrance.

RECITAL. (Hamblen). Pale blue stands and violet-blue falls, with pale yellow beards. Flowers look wide and full. Neglectas are appearing again!

STAR CHILD. (Hager). Ice-blue self even to the beard, an aphylla hybrid with delectable starry form and apparently trustworthy size and proportions.

VALLIE ECHO. (Wolff). If this stays in size it will be a winner with its tangerine-bearded yellow flowers, with white patch in the falls.

WALTZING MATILDA. (Porreca). This one is actually a small TB, but is in excellent proportions and its flowers are different and beautiful, with a full but muted apricot coloring in the stands and somewhat deepened around the haft and in the beard.

MINIATURE TALL BEARDED (TABLE)

DAINTY CLOUD. (A. Brown). White with lavender dotting and stripping in the familiar table iris form.

OPAL IMP. (Dunderman). Pearly white with pale blue undertone.

CAROLYN ROSE. (Dunderman). A white ground plic with a nice pattern in rose-pink, quite heavy in the stands and more lightly applied in the falls.

Irises for 1971

Ralph and Helen Lewis

These notes are taken from what was, to us, a new hunting ground. They are based on the Region 21 meeting and tour in and about Sioux City, and on a trip which enabled us to visit iris gardens in Denver and Ft. Morgan, Colo., and at Lexington, NB. We missed many gardens but hope to rectify that as we get to know our new Region better.

SILENT SNOW (Benson). Big, beautifully formed and ruffled white with tight standards and broad, semiflaring falls. Substance good; stems strong and well branched.

VEILED PROPHET (Wolff). Beautiful white BB with self beard and just a touch of gold deep in heart of flower. Blooms excellently formed, with lots of flare and fine substance. Petals are nicely laced and beard is almost white, tipped gold.

WHITE HARMONY (Kuesel). Very fine white. Flowers very beautifully formed and strongly subenced, ruffling good, stems strong, and branching very satisfactory. Excellent performer.

PIKES PEAK (Foster). Excellent, big, Colorado-bred white. Flowers beautifully formed, strongly subenced and nicely waved. Stalks and branching more than adequate. One we want.

BEAUTY TIP (Plough). White, shaded slightly toward lavender; sports a coral pink beard. Flowers nicely formed and well ruffled, with closed standards and semiflaring falls. Substance and branching good. Reported to be a good pod parent.

STAR CITY (F. A. Brown). Beautifully formed and nicely ruffled white with golden heart. Form, substance and branching excellent. Petals nicely waved.

LIME FIZZ (Schreiners). Very attractive pure light yellow. We saw no green in it. Fine form, lots of lacing, and yellow beard with white blaze at the end. Good substance and unusually good branching.

FLAMING STAR (Plough). Large, brilliant orange flower with even brighter beard. Standards open but have good enough substance to stand up in hard Colorado wind.

B. JONES 707. Pale yellow, lighter than lemon; sports a tangerine beard with white blaze at tip. Highly ruffled standards stand up well in wind, and semiflaring falls withstand weather nicely. Very worthy of introduction.

TANGERINE SUNSET (Marsh). Orange with very bright tangerine beard. Flowers have closed and very ruffled standards and long oval falls that also have a great deal of ruffling. Substance and branching good; certainly makes a bright spot in the garden.

SUN TEMPLE (Marsh). Excellently formed yellow with tight standards and flaring falls, and sporting bright yellow beard with slight white blaze at the tip. Well subenced and nicely branched.

ON TARGET (Knopf). Tall, well branched, deeper yellow flower with closed globular standards and very broad semiflaring falls. Good substance, nicely ruffled, and excellent performer.

SUNSET RIDGE (Gaskill). Nice orange flower with tangerine beard. Beautifully colored flower with nice form, substance and branching.

TREASURE ROOM (Phenis). Clean, deep yellow flower with closed standards and flaring falls that carry self beard. Form, substance and branching very satisfactory. An iris that you will walk across the garden to see.

B. JONES 918-2. Charming, ruffled, peachy pink flower, quite intensely colored and very, very ruffled. Standards tight and the almost horizontal falls carry a nice red beard. Stems tall, strong, and adequately branched. Substance is good.

SCHAPARELLI (Moldovan). Very exciting new pink, clear and true in color, with tight conical standards and broad, almost round, flaring falls that carry a narrow, slightly deeper pink beard. Form, substance, branching and ruffling are grand. This is on our personal want list.

GASKILL 966-20. Most interesting pink seedling. Form and substance excellent and flaring falls carry a deep cherry beard. Strongly subenced, well-branched, nicely ruffled and floriferous.

TRADE WINDS (D. Lorenz). Deep pink with tight standards and flaring oval falls. Petals beautifully waved and strongly subenced; its tangerine beard harmonizes nicely with color of the rest of flower.

FIFTY GRAND (Gaskill). Exquisite deep true pink with beard between

tangerine and pink. This outstanding iris has fine form and good branching, and is strongly substanded and very floriferous. We'd surely like to have one.

GRAND WALTZ (Schreiner). Well formed orchid flowers with closed globular standards and broad oval falls, both heavily laced. Newly opened flowers considerably darker than older blooms, but this lightening in color is uniform and not at all objectionable. Leaves little room for criticism.

RASPBERRY RIPPLES (Niswonger). Truly superb flower. Its name gives its color. Standards strong, globular, closely held, and broad falls flare beautifully. Beard tangerine in color and petals nicely ruffled. Substance and branching superb. Very floriferous, and a "must have" for everyone.

WARM LAUGHTER (Schreiners). Rosy orchid, in general color class of Grand Waltz. Form, substance and branching very good and petals nicely waved.

RARE TREASURE (E. Smith). Nice ruffled violet with tangerine beard. Standards not tight; falls flare. Ruffling, substance and branching very good.

ELEGANT CHARM (R. Brown). Amethyst violet flower carries a blue beard. Standards tight and round falls flare nicely. Ruffling, form, and branching satisfactory.

JOY DANCER (Tucker). Very, very much ruffled light violet. Flowers have good form and substance. Not tall where we saw it.

OZARK BEAUTY (Tucker). Very lacy light lavender with touch of gold at haft. Form, substance and branching very satisfactory; stalks are sturdy. Charming iris.

INDIAN SIGN (Schreiners). This interesting flower has tannish buff standards that are held very tightly, and broad semiflaring falls that show considerable amount of brown, with lighter blaze at tip of beard, and tan edge which matches the standards. Substance, branching and form very satisfactory.

BANDOLIER (Plough). Bicolor with tightly held buffy yellow standards, and falls—medium light violet with buff border. Substance and branching good; fertile both ways.

TAMBOURINE (Babson). Excellent violet and yellow bicolor with heavy substance and nice ruffling. Violet falls have nice brown border and carry gold beard. Form excellent; stands up well under adverse conditions.

BALLYHOO (Keppel). Floriferous, well-branched, strongly substanded yellow and violet bicolor. Yellow standards tightly held and flaring violet-rose falls show pale lemon beard. Petals nicely waved.

HAPPY ENDING (Keppel). Bitone with light blue-violet standards tightly held, and broad semiflaring deeper violet falls that mount a yellow-tipped white beard. Wash of brown at haft. Flowers waved, well substanded, and nicely formed. Branching good.

FOGGY DEW (Keppel). New to us, this was an unusually attractive flower. Strong, almost white standards show a blend of cream and lavender and are not held tightly closed. The plicata type falls have a nice border of pale blue-violet. Ruffling good, substance fine, branching very satisfactory, and it seems to be a very good performer.

KIMBERLINA (Sexton). Yellow and pink blend whose conical standards are primarily pink, and broad semiflaring falls primarily yellow, with touch of pink around the tangerine beard. Satisfactory in every respect.

CAROLINA HOPE (Powell). Very beautiful and different bitone, with tightly held standards flushed rose, and rose-pink falls with deeper rose stripe down center. Here, in Nebraska, the color tended more to violet, while in Carolina gardens where we have seen it, tones were more emphatically pink.

Excellent form and substance, fine branching, and superb performer.

MOON DANCER (Marsh). Flower has almost golden yellow standards and flaring brown falls that show a violet blaze at end of yellow beard. Petals nicely ruffled, well formed and strongly substanded.

BUTTERED POPCORN (Palmer). Nicely formed flowers of yellow and white that are heavily ruffled. Standards tight and falls broad and flaring. Very floriferous and highly desirable.

MAIDEN VOYAGE (W. Barrere). Standards orchid-pink and falls deeper in tone, blended rose, orchid and brown, and show a blue blaze at tip of tangerine beard. Flowers large, nicely waved, and well substanded. Branching is good.

TROPICAL NIGHT (Schreiners). Perhaps most discussed iris on the Region 21 tour. Nicely formed large flowers show light blue globular standards that are closely held. Very broad flaring falls are very deep violet in color, velvety in texture, and have a deep brown beard. Excellent in every respect. Should be a great favorite.

FLAME AND SAND (Carlson). Tan flower with brilliant tangerine beard. Form, branching and ruffling good; standards closed and falls wide and semiflaring. Fertile both ways.

HONEY SPICE (Hamblen). Tan BB with brown style markings on falls and standards. Well branched and substanded and nicely formed.

WAR LORD (Schreiners). We believe this to be the most satisfactory red we have seen to date. Well colored, beautifully formed, notably wavy, the flowers are also strongly substanded and resistant to adverse weather conditions. Truly a very outstanding iris.

TAFFY TWIST (Roe). Beautiful tan blend, superbly formed and nicely ruffled, with very good substance and branching. Floriferous and an outstanding performer.

NIGHT OWL (Schreiners). Very nice deep black flower, well formed and strongly substanded. Falls very velvety in texture, flare nicely, and carry a blue-black beard. Petals nicely waved and to us this appears to approach black from the blue side. Branching exceptionally good and it was performing excellently.

EDELMAN 67-1. Very fine black seedling from Velvet Rose X Black Swan. Nicely waved flowers of excellent form and substance, taking the strong Colorado winds very well. This black from the red side has strong stems, good branching, and is well worthy of introduction.

NIGHT SONG (Luihn). Fine, very dark "black" iris with lots of flare and style. This impressed us, both here and on east coast, by its quality, depth of color, and performance.

DARK DREAM (Plough). Fine deep violet, somewhat on blue side, with violet standards and much darker velvety falls. Flares nicely, is well substanded and well branched. Good.

TANYA ELIZABETH (Wolff). Beautiful deep blue-violet border iris with tight standards, ruffled flaring falls carry a blue beard tipped white, well branched; all in all a very exciting new one.

ROYAL HERITAGE (Luihn). Big deep violet or black flower, excellent as to form, substance, branching and texture, and performing better than we have ever seen it anywhere. A "must have" for us.

PAWNEE PRIDE (Tucker). Superb deep blue. Blue is the predominant tone. Flowers beautifully formed, nicely waved, and have good substance. Branching excellent and performance good. A "must have" for us.

A NEW KIND OF IRIS

Allan Ensminger of Lincoln, Nebr., has developed a new kind of iris, which is unusual in that all parts are in five—standards, falls and other parts. They are variegated in form, somewhat on the fancy pattern, stripes and splashes of one color on another. Most of them have blue, violet or red-violet on white, but there is one with aster violet on pale blue and even one with a yellow base.



SHIPSHAPE (Babson). Big, fine, well-formed medium blue, slightly on the darker side, that "sends us". A true blue, not violet. Standards tight and conical, substance heavy and flower is beautifully waved. Falls very wide, round in form, and flare nicely. Stalks strong and branching good. A most desirable iris.

BABBLING BROOK (Keppel). One of the bluest of the medium to light blues. Some consider it bluer than its parent, Galilee. Form, substance, branching and ruffling superb. Flowers large and carried on strong, well-branched stalks. In our opinion, this is worthy of the highest honor that can be given.

NEPTUNE'S POOL (Moldovan). Very beautiful deep violet-blue of fine form, with tight conical standards, flaring falls, nicely waved and well substantenced. Stems sturdy and branching good. A little gold on tip of beard; the rest is dark. One we want.

PALMER 3367G. Large pale blue flower with strong standards, excellent substance and form. Falls broad and round and nicely waved. Stalks tall and branching good. The oldest blooms definitely lighter in color than the new ones, but uniform and pretty.

GREAT RIVER (Cramer). Superb medium blue, with almost perfectly formed, strongly substantenced, ruffled, very blue flowers growing on tall, strong, well-branched stalks. An excellent performer.

DISCOVERY BAY (O. Brown). Beautiful medium blue self with matching beard. Flowers large, well formed, with tight standards and flaring falls attractively waved. Substance and branching good. Foliage purple at the base.

HOAGE H-66-21-A. A most exciting new iris, the nearest thing to green we have ever seen. In fact, one can describe it as "green", not "greenish". Flowers beautifully formed, nicely ruffled, and strongly substantenced. Branching good. This should prove to be very exciting for all iris growers.

CREME DE MENTHE (Wolff). Charming, well-formed border iris. Cream with definite touches of green, especially at hafts. Flower nicely ruffled, standards tight, flaring falls carry a white beard. Certainly an iris well worth having.

CHARMED CIRCLE (Keppel). A grand plicata. Deep violet standards with just a touch of white are globular and strong, and round flaring falls with narrow

clean violet border are beautifully waved and well substantiated. Excellent in every respect.

STEPPING OUT (Schreiner). An older violet and white plicata that pleased because of its nice clean pattern, excellent form, fine substance, and superb performance.

SPURIAS IN CONCERT

James LaMaster

Few of us care to spend an entire evening quietly listening to Bach or Beethoven; neither do many care to spend the same amount of time with the blare of the latest "mod" music. Most of us would prefer a mixture of the two, with perhaps a sprinkling of the music which made the transition between these two musical eras and categories. In this manner one learns to evaluate the historical as well as the artistic qualities which make each musical era worthy of study and appreciation. So it is with spurias.

In this lesson of spuria appreciation we will first look at the "Folk Ballads", the simplest and oldest form of the spuria family, which have been handed along from one spuria fancier to another since time immemorable—the species. These ancestors of our modern spuria cultivars each have characteristics which have made them popular, but at this time we will only discuss the three special favorites of "Yours truly".

Iris crocea (=aurea) has blossoms of a very clear canary yellow color which grow on bloomstalks of average height. The foliage of this (and most other species) is particularly virus free and therefore much greener during the entire season than the foliage of the newer cultivars. The most outstanding feature of this spuria is the falls of the blossoms; to my knowledge this is the only spuria to have pointed falls. The bud placement is good, however, not so good as *Iris ochroleuca*.

Iris sintenisii is great for rock gardens and equally effective as an edging plant. The evergreen foliage is about eight inches tall; three to five dark blue-violet blossoms are carried on bloomstalks that range from six to eight inches tall. The blossom size is comparable to a fifty cent piece—if you remember what size they were. The proximity to the ground gives a creeping effect to an established clump of this delicate yet hardy plant. It is the last of the spurias to bloom here, and the miniature blossoms make a definite crescendo to the end of spuria season.

Iris maritima (=spuria maritima) In Bill Gunther's garden this past season a two-year clump of approximately eighteen inches in diameter had twenty-five bloomstalks. Each stalk had from four to eight blossoms of blue-violet coloring; the standards were more violet while the falls were more blue than violet. The brilliant green of the foliage is still holding at this writing and shows no virus. This clump happens to be growing close to (practically rhizome to rhizome) a clump of CAESAR'S BROTHER and one has to look extra close to ascertain which foliage belongs to which clump. Oh yes, the Siberian has both taller foliage and taller bloomstalks than the spuria.

Now let us turn to the "Classics" of the spuria world. These are some of the cultivars which are the direct parents of the "Pop Hits" of today's spurias. The greatest spuria composers of the era were Barr & Sons of London, England, who bred and introduced MONSPUR CAMBRIDGE BLUE and PREMIER, which are

favorites of all who see them today. However, WADI ZEM ZEM, which was bred and introduced by Carl Milliken, of the USA, has gone down in spuria history as one of the greatest for producing power and is still a good exhibition flower even according to today's standards. Mrs. Stuart Combs, also of the USA, used WADI ZEM ZEM to produce what is my favorite yellow self spuria, GOLDEN LADY.

MONSPUR CAMBRIDGE BLUE is the bluest blue I have seen in spurias as well as the tallest. The bud placement is excellent with as many as six flowers open at one time. Flower size is better than average as is also true with the form of the flower.

PREMIER is one of the shorter spurias and equally as floriferous as MONSPUR CAMBRIDGE BLUE. It is more spidery in form but more useful in arrangements than a large number of the more modern cultivars. It has a longer bloomseason than most of the cultivars and is usually one of the last to say, "Adieu".

WADI ZEM ZEM is a very clear yellow with relatively good spacing on the bloomstalk. This one will not produce in the colder regions, but as mentioned before, it is renowned by spuria hybridizers as a parent, and is also an effective antidote for virus in seedlings.

GOLDEN LADY is perhaps the best known child of WADI ZEM ZEM. She has very good form, equally good bud placement, and is much more hardy than the parent. This spuria is of medium height and is an early bloomer—the first yellow in this garden.

As "Pop Hits" fall into categories like jazz, blues, and rock, the spuria "Pop Hits" are being categorized here by color:

WINDFALL is perhaps the most floriferous of this category, with four or five blossoms open simultaneously. The flower size could be greater, but the spacing is very good. This is a white-white without too bright a signal.

LYDIA JANE has much better size of blossom than WINDFALL, but also has a larger signal which gives the falls more color than I prefer in a white. This plant is shorter than the other whites mentioned herewith and tends to have a smaller number of blossoms per stalk.

DAWN CANDLE is a pale, creamy white with good substance and staying power. The bud placement is equal to either of the whites I have mentioned, as is the floriferousness. This is perhaps my preference in the white category, and is another of the WADI ZEM ZEM prodigy.

Two white seedlings caught my eye this past season. One was produced by Marion Walker and was seen in his garden; I understand that this one will be introduced by Schreiner in 1972. The other was awarded an Exhibition Certificate during the Wichita Spuria Show and was hybridized by Walker Ferguson; so far as I know, there have been no plans made for the introduction of this one. Both were exceptionally large and with relatively little signal.

HIGHLINE LAVENDER is a very well formed lavender-blue. The fact that it won the 1971 Eric Nies award proves its popularity with others than myself. Having all the good qualities, which most are aware of, I will point out its faults—which some may not be so aware of: It has a distinct tendency to be spathe bound, and it does not hold its color as well as it should.

ANACAPA is another well-formed lavender-blue, but in a darker tone, with the accent being on blue. This is one of the shorter modern cultivars; good size of flower; average bud placement. The darker tone of the blossom permits the signal to also be brighter—which it is—but the same signal on HIGHLINE LAVENDER would ruin the harmony of color.



ELIXIR (Hager '64)



HIGHLINE LAVENDER
(McCown '68)



Ferguson 69-5

PURPLE KNIGHT is the darkest spuria of the blue hue. This one is well worth having for the color alone, but it also has better than average placement. The size of the blossom is a bit small and the petals are rather thin. Still it is a must—for the color.

ELIXIR is the only yellow, other than GOLDEN LADY, I feel is worth mentioning. This one is more of a golden yellow and has excellent bud placement with six blossoms on the average stalk. The foliage of this cultivar is better than that of its contemporaries because of the species parent.

IMPERIAL BURGUNDY is the earliest of the browns in this garden. The spacing is good, but the petals are rather narrow. This is a very dark brown-red with a virus weakness.

DARK AND HANDSOME is a good brown color, but the large yellow signal takes away from the brown. This one has a relatively short bloomseason; good spacing; good form; but few flowers open simultaneously.

CHUMASCH CHIEF has a good chocolate brown color which holds without too much fading; the signal does not detract from the brown. Average height; good spacing; lacks size of petals which has been corrected in Walker's more recent seedlings.

REDWOOD FALLS is one of the—perhaps THE—darkest spuria on the market. The darkness of the red-brown color is accentuated by the lack of a large, bright signal. Very good size; good placement; two or three blossoms open at one time. Sorry folks, but this one is not very strong on increase.

I must take this chance to mention the two most spectacular spuria seedlings which I saw this past season. One—and the most spectacular because it was the darkest—was in Walker Ferguson's garden; it was as near black as anything I have seen in the TBs. It had good form, but was bunched more than I like. The other was a yellow-brown combination which gave true tan effect; this one was in Marion Walker's garden. The blossom size was better than Fergy's black. The tan also receives higher scores for both form and spacing. Fergy has registered the black as CROW WING; Walker's is numbered S41-71———watch for them both.

On this final note our concert ends with the hope that the audience has gained some "Spuria Appreciation" from these scores.

REQUIEM TO A SPECIES

Bill Gunther

If you are a species enthusiast, and if in your garden there is a very beautiful beardless iris with a label which reads "*Iris longipetala*", then the thing for you to do—right now—is to force yourself to go out and pull it up.

Pull up the label; not the iris.

Immediately afterwards, if you have a copy of the American Iris Society's book, *GARDEN IRISES*, you should make corrections to pages 155, 237, and 433, so as to delete *Iris longipetala* from the species category.

All this is because *Iris longipetala* now has lost its species status. That loss is irretrievable. From now on, the plant which we have called *Iris longipetala* is no more than just a form of *Iris missouriensis*.

The degradation of this beautiful plant was accomplished very suddenly and very decisively. The villain who perpetrated the deed was Homer Metcalf. Homer knows well that his action will not make him popular, but he did not do it for popularity. He did it for science.



Unlike most irises, *Iris missouriensis* does not like acid soil; it thrives best when it gets an abundant supply of limewater. This fact is illustrated by the concentration of blooms along the Yellowstone River, which is fed by the limestone springs and geysers of Yellowstone National Park. In the background is historic Emigrant Peak.



This beautiful iris, properly designated *Iris missouriensis*, is so adaptable that it thrives practically anyplace where there is both limestone and water. In the wild, it grows in vast portions of western USA all the way from the high Rockies down to sea level on the Pacific shore, and all the way from the Canadian to the Mexican borders.

Homer Metcalf is on the faculty of Montana State University, and he is the world's leading authority on irises of the Longipetalae Series. During recent years he has been utilizing a new methodology to evaluate the irises of that series. This new methodology has involved use of electronic computers to process a great amount of information on iris specimens; the system is called "taximetric analysis". By a clustering technique developed by a scientific team headed by Dr. David Rogers of the University of Colorado, related organisms are differentiated from less closely related ones by their similarities. In very simple terms, the results are analagous to the old adage, "Birds of a feather flock together".

Reams of computer output from this processing were reviewed by Homer Metcalf, and his findings from that review were converted by him into a formal doctoral thesis. A basic conclusion in his thesis was that *Iris longipetala* no longer should have status as an individual species. Nor should several other forms once considered species, e.g. *Iris arizonica*, *Iris montana*, and *Iris pelogonus*.



Dr. Homer Metcalf crouches to get an eyelevel view of one of the many selected clones of *Iris missouriensis* which he has transplanted to the grounds of Montana State University, Bozeman, Montana, where he serves as a distinguished member of the faculty.

Homer Metcalf's thesis was reviewed by a committee of those scientists who were best qualified to evaluate it; Dr. Lee Lenz was one of the members. The committee scrutinized the thesis and its supporting documents critically, after which the board conducted a hearing during which Homer Metcalf defended his thesis. The final conclusion of the board was that the thesis was valid and proved. That decision was tantamount to a simultaneous demotion and promotion. It demoted *Iris longipetala* and it promoted Homer Metcalf by awarding him a doctorate degree in botany.

Many expressions of congratulation now are being sent to Dr. Homer Metcalf. But—at the same time—many irisarians feel sentimental regrets on behalf of the very innocent iris which has been deprived of its own species name. A note of bittersweet consolation is the fact that under international botanic rules the name of the iris *series* is not affected by the reevaluation of a species

which gave the series its name. Consequently, by proper terminology, there now is the Genus (*Iris*), within which there is the Series (*Longipetalae*), under which there now is but one species. That single species is *Iris missouriensis*, which has several forms.

May the ex-species "*Iris longipetala*" rest in peace. Perhaps this will be its only requiem.

Irises in the Midwest

Dave Niswonger

Generally speaking, the iris season in the central Midwest was good. Nearly all the gardens had some losses by winter kill, it was a little dry just before bloom time, there was some hail, but it's almost impossible for all of us to get the kind of weather conditions that we would like (with the exception of the Wichita folks). Outstanding performance of certain varieties are listed in gardens of eastern Missouri and Southern Illinois.

IMPERIAL BALLET (Palmer). A self of purple-violet, well-formed flower with heavy substance and blooming at nice height of 36". Stalks well branched and the substance good on large blooms.

CAPTIVE CLOUD (Palmer). Talk about something that is really wide at the hafts, and good clean, clear, white color; this is it. Also has a white beard to match and large blooms. In my opinion, a magnificent addition to the white class.

BUTTERED POPCORN (Palmer). Looks just about like its name, yellow and white mixed together beautifully. Very good texture, and a real strong stem which should carry it through almost any type of weather. A little bit late in blooming which often means it doesn't get seen, but a very good addition to this class.

For those liking the kookey irises, ABSTRACTION (Palmer) will fill the order. It's from red, white, and blue breeding, and is greenish buff-yellow. It has the ruffling and flaring falls, etc. to go with it, as is evidenced by all the Palmer introductions.

Being a hybridizer, I am always interested in the new things coming up and Dorothy Palmer really has some beautiful things for the next few years. Some of them are: For 1972, there are four that I like: DREAM VENDOR, very nice pink with good form (I only wish it were taller); AUTUMN TAPESTRY, very nice brown; SOFT MUSIC, nice blue out of Skywatch; and KEYNOTE, blue-white with blue beard which many will remember as 3367 B in the Wall garden at Wichita. For 1973, there is FASHION TREND, a very nice blue out of Winter Olympics x Seaborne; STARRING ROLE, a nice fluted yellow. For 1974, there is a very nice orange bicolor with very flared lacy falls, out of Harmony House, which will be named HAPPY HARMONY. Dorothy has a very good cross of pink amoenas (1070 series) which came from a seedling out of Magic Morn and her seedling with a pink blotch and Java Dove crossed with Sunset Snows. Several of these were good and the best one has not been selected as yet, but all of them are quite ruffled with good contrast and nice personalities.

MISS DOLLY DOLLARS (Benson) is one that I have liked ever since it first bloomed as a seedling. White with lots of lace and red beard, out of Rippling

Waters. Very well branched and has good bud count; sometimes it grows a little short, but I have always liked it.

SILENT SNOW (Benson). Very nice white with heavy substance, ruffled, out of Skywatch; a very vigorous plant.

ICE BOUND (Benson), another very nice white with heavy substance and good width.

PARIS OPERA, out of Rippling Waters and Skywatch, was "point scored" during Judges Training School, and as I recall, the rating came up into the 90% rating. A very vigorous mauve, lilac and violet self with ruffled form and a blue tip beard.

MAESTRO PUCCINI, another very nice iris, is a light silvery powdery blue self out of Van Cliburn and Tidelands.

I especially liked Marvin Olson's whites with red beards. Most of these have come from Rippling Waters and Arctic Flame. ARCTIC TORCH (Olson) is a very nice pure white self with a red beard which put on quite a show at the New York convention.

ARCTIC FANTASY (Olson), is a very large heavy substandard pale mauve when it first opens and turns to pure white in just a few hours. Both of these are some of the best in this class. ARCTIC DAWN (Olson) is one of the best cream colored irises that I know. It is very tall and very well branched and pretty well "takes the cake" in this color class. It was growing well at the New York and Wichita conventions.

Bill Carter has blasted off with BLAST OFF (Carter), a very vigorous amoena with very nice branching and performing well in other gardens wherever seen. DEAR DOLLIE (Carter) is a Milestone color which appears to have a little more vigor than its parent. Bill had a very good cross in which practically all the seedlings were top quality, out of Arctic Fury x Brave Viking. Three of these will probably be introduced, the first one in line is ARCTIC VIKING (Carter '72). This is a very wide white bringing forth the best qualities of both parents. ICE AGE (probably '73) is another good white, and VIKING'S VICTORY (probably '73) is a nice light blue with a nice fat beard, from Brave Viking.

Georgia Hinkle has quite an array of top-notch irises out of a cross from Eve x Dear Bob. It's hard to say just which one of these is the best because they are all different and it depends upon whether one likes light colored irises or darker colored ones. MARION MAID (Hinkle) is a light blue self with a cream beard. It's extremely ruffled and very floriferous. A clump of this really makes a nice show, TEMPO (Hinkle) is the lightest blue of them all, with veining of deeper blue throughout the entire bloom. This is one trait that I especially like in irises. This is one of my favorites of this group. LAZY RIVER (Hinkle) is also a light blue, but a little darker than Tempo and is very nicely branched. KENTUCKY HILLS (Hinkle) is another one of my favorites from this group. I especially like its large fat caterpillar beard for which the Hinkle irises are famous, CZARINA (Hinkle) is a white iris of very nice proportions, well branched, ruffles and a very nice personality. GENTIAN ETUDE (Hinkle) is a light blend of blue, yellow and gray and has been one of my favorites ever since seeing it as a seedling. It is somewhat late and many people miss seeing it. ROYAL EGYPTIAN (Hinkle) is buff orange with the darker veining that I like. It is very different from any other iris that I know of. It is a very wide full large bloom.

We visited James Tucker's garden in a blinding rainstorm. The irises were exceptionally well grown in this garden and were taking the wind and rain quite well. BLUE WARBLER (Tucker) is an advancement in the reverse amoena class

that Jim has been working on for many years. It has a much deeper color than all of the others now on the market. I only wish that it has been in the tall bearded class rather than the border class. JOY DANCER (Tucker) is a nice lilac self with a yellow beard and nice crinkled bloom. MY SIN (Tucker) is a very unusual red-tan with lots of ruffles. Several of Jim's seedlings were quite outstanding and I can hardly wait until they will be introduced. One of them especially was SURF RIDER (Tucker '72) which is another improvement on the reverse amoena class that is quite outstanding. Jim had a group of brown blends that were very nice. 726 A will probably be introduced in '72, as will 726 E, which is a mauve with violet haze and a slight band around the falls; it is unusually nice. Taking the rain real well in the garden was GRAND WALTZ (Schreiners), an iris that has nice width and lace to it, and very distinctive color.

Truman Gladish had many new irises in bloom; among them were these that I liked very well: PUNCHLINE (Plough), WEST COAST (Knopf), DUSKY DANCER (Luihn), one of the best blacks out, though a bit late, BARCELONA (O. Brown), yellow standards with dark plum red falls, very good grower and distinctive. Truman had a very nice seedling, SMOKED PEARL ('73), out of Raspberry Whirl x Orchid Jewel. This is a very unusual iris, a dark blend of smoky red-violet with darker standards than the falls; very unusual.

In the Chester Blaylock garden, we liked LIME FIZZ (Schreiner's), a very good chartreuse yellow with lots of lace, EXTRA MARGIN (Plough), very unusual pinkish beige iris with a buff pink border, and DIAMOND BLUE (Buckles), a very wide light blue with Winter Olympics branching. Others doing real well were MEGGIE (Gaulter), GALA MADRID (Peterson), and FRONTIER MARSHALL (Schreiners). Chester has some nice yellow seedlings; 40-67 is a very lacy gold that is unusually nice, out of Rainbow Gold and Full Dress.

In the Edward Arnoldi Garden, we liked EMMA LOUISA (Buckles), a very vigorous grower with light lavender blue standards and red plum falls, which reblooms quite consistently and is of very high quality; ORANGE VISTA (Mayberry), a very deep orange with lots of lace putting on quite a show. I only wish that it would be a more vigorous plant and would increase better. CHERUB CHOIR (Corlew) is a very pale pink with a white beard. It was quite different for the pink class.

In the John Blackiston garden OVATION (Tompkins) was a very deep pink of unusual color. In some respects the color appears to be quite crude when up close, but from a distance is a very unusual pink. PINK PUSSYCAT (Tompkins), a sib, is quite different, being a very light pink with very nicely formed blooms and good clear color. WARLORD (Schreiners) is one of the nicest reds out with very nice ruffles, which is unusual for a red. In our area it could increase better.

In my garden I especially liked four seedlings of Gene Buckles which are scheduled for introduction in 1972. They are BUTTERSCOTCH TRIM, which is a light lavender edged with deep gold, and extremely laced both on standards and falls; GLOWING VOLCANO, a deeper colored Milestone and extremely vigorous with as many as fifteen buds to the stalk, with large blooms; COOL AND LOVELY, a nice yellow bordered iris; and STAINED IVORY, with pink standards and white falls and a very nice pink laced edging around them. Also in the garden were TREASURE ROOM (Phenis), a very nice gold; TRADEWINDS (Lorenz), a very nice darker pink; DISCOVERY BAY (O. Brown), a very nice light blue with a very dark blue beard and well branched stalk, very vigorous. BALLYHOO (Keppel) is one of the best from the plicata-amoenae type that Keith has been working on. This one is tall and very well branched, with nice

large blooms and deep color contrast. BIG LEAGUE (Schreiners) is one of the largest blues that I know of and a very good performer.

There are many other irises that could be mentioned. I think we could say that our generation is quite blessed with the many colors and high quality of irises available to us.

Varietal Comments

Roy H. Hall

The Wichita convention was the high point of the iris season, in my opinion and the concensus of those with whom I talked at the meeting. It was so well planned and executed that there was little or no confusion. Of course, schedules ran late through no fault of the management, but through the fault of the "long-lookers." All the gardens had been well tended, and for once, at least, the weather was perfect. Bloom in most places was just about at peak for most varieties. The hospitality of the owners of the gardens and of the members of the Wichita Area Iris Club was unsurpassed. I know that all of us who were fortunate enough to attend appreciate, and were greatly enlightened by, the efforts of our hosts. It made me quite proud that I was one of the charter members of that Wichita club, and a former thirty-year resident of the city.

Some of the outstanding irises I saw in these Wichita gardens:

TORCH GLOW (E. Alexander) is a brassy yellow MILLIONAIRE type that makes a bright spot in the garden. Substance and form are good. The plant appeared to be healthy and strong.

ENCHANTED CLOUD (R. Brown), a wavy crinkled falls amoena type, with light blue falls and very white standards.

HEY LOOKY (W. F. Brown). The name would stop one to observe, if nothing else. A speckled light blue and white plicata of medium size and form and fair substance.

TUCSON (Hager). Larger and better formed than GRAND CANYON, but much the same blend of colors. A blue and red-brown blend that catches the eye. A brownish beard sets it off.

PARTY CLOTH (Alan Johnson). This Australian really enlarged on WHOLE CLOTH with this one. It has good medium blue color with good substance in the falls. The pure white standards are erect and closed. No haft marks were observed on the broad falls, rounded and flaring. I think the beard is white.

ALASKAN CROWN (J. Nelson) is a blue bicolor with extra good form and substance. The beard is yellow.

Gaulter 68-99 is a LAURIE type lavender with many blossoms open on several stalks. Probably an improvement on LAURIE. A bluish beard, white tipped, adds something.

JOLIE (Schreiners), a bit older than most of these but still attractive. A purple plicata on white background. It is larger than many plicatas of this color. The falls have a wide band of stippled purple which are duplicated on the wavy white and erect standards. Substance is good. It is somewhat like RIBBON ROUND, but larger and taller.

NOME (Schreiners) is a light yellow self (perhaps lemon yellow describes it better.) Beard is light yellow and thick. Branching is extra good and there

are four or five blossoms open at one time.

JEWEL TONE (Schreiners) is really a beauty. It ranges from 34" to 38" tall. A ruby red self with a heavy brown beard. The substance is fairly heavy and it stands up in the sun. A cross of CASA MORENA X BURMESE RUBY, it is a good addition to the reds.

BIG LEAGUE (Schreiners) is a big big blue self, possibly the largest blue iris yet produced, and maybe the tallest. The estimated height of the stalks range from 38" to 44". They are thick and strong, and support a large blue blossom. The falls are wide hafted, with no visible haft marks, and the standards are erect. The thick beard is yellow tipped with blue. The whole flower is five or six inches wide, and about four or five inches high, with good substance. Branching is good. One needs a large garden for this one—a blue to top all blues.

PUNCHLINE (Plough). Standards are plum brown, and the falls violet with a wide brown border of rich chocolate. The stalks are about 34", and branching is fair to good. Beard is a yellow-orange and thick. A cross of KACHINA DOLL sib X SERENE SERENADE produced this beauty.

CAMBODIA (Babson). The medium blue standards with lavender infusion at the base are attractive. The cobalt blue beard on flaring violet brown blended falls make an unusual combination. This one is gaining in popularity.

BLACK ROSE (Vallette) is no Idaho potato, but a dark blue purple, almost black, with a correspondingly dark purple beard. The form is good and it is somewhat larger than others in this class. Substance seems to be somewhat above average.

CORONADO'S QUEST (Reynolds). You guessed it, a golden yellow, or perhaps better, butter yellow, with nice form and fair substance. A bright spot in the garden.

STUDY IN BLACK (Plough), a dark purple self with dark purple beard. With the sun shining through this blossom, it seems to be on the red-purple side.

NEW MOON (Sexton) is an excellently branched large yellow, with good substance and form. Beard is cream-yellow and heavy.

The oncobreds were there, but, of course, their season of bloom is much earlier than the tall bearded irises. I think I will try to see some of these by visiting northern gardens. My own, here in Dallas, when they bloom, it is usually March 10 to April 10-15. Bloom usually is rather sparse in my garden, and I have tried to correct this, without much success.

There was a number of smaller irises at Wichita, and several of them attracted attention. Among them were DAINTY DAMSEL, ARCTIC MYST and ROSE HARMONY, all heavy bloomers.

There were many beautiful gardens filled with irises and other flowers. Many were landscaped with shrub and tree backgrounds that made attractive pictures. A few occupied all of the backyards with attractively arranged iris beds.

Wichita has been landscaping the Arkansas River banks, as it meanders through the parks and the down town section of Wichita, along McLean Boulevard. This beautification of the river banks and the elimination of old and run down buildings along the river course has added much to the area. Dams a few feet high maintain the water level at a desirable depth. So far no irises have been used in the landscaping.

Popularity Poll - 1971

Position 1971 1970		Variety		Position 1971 1972		Variety	
1	1	STEPPING OUT	624	51	34	PIETY	141
2	7	DEBBY RAIRDON	456	53		TOUCHE	140
3	3	BABBLING BROOK	450	53	33	WHOLE CLOTH	140
4	2	WINTER OLYMPICS	420	55	85	APROPOS	138
5	5	CAMELOT ROSE	401	55	67	NIGHT HERON	138
6	11	DUSKY DANCER	373	57	58	FUJI'S MANTLE	137
7	6	LAURIE	348	58	56	GRAND ALLIANCE	136
8	22	NEW MOON	324	59	41	DOT AND DASH	132
9	4	RIPPLING WATERS	309	59	43	KINGDON	132
10	28	PINK TAFFETA	298	61	78	MISS ILLINI	130
11	19	CUP RACE	287	62	100	CLAUDIA RENE	129
12	25	CHRISTMAS TIME	267	63	93	MAHALO	128
13	10	ESTHER FAY	249	63		MULBERRY WINE	128
14	18	IRISH LULLABY	247	65	89	FRONTIER MARSHALL	
15	8	SKYWATCH	246				127
16	31	RADIANT APOGEE	228	66		NINEVEH	124
17	9	AMETHYST FLAME	225	66	58	PRINCE INDIGO	124
18	21	GINGERSNAP	221	68		JILBY	123
19	20	WINE AND ROSES	220	68	61	SOUTHERN COMFORT	
20	50	GALA MADRID	218				123
21	72	CHERUB CHOIR	216	70	53	LICORICE STICK	122
22	15	LILAC CHAMPAGNE	212	70		PATRICIA CRAIG	122
23		SHIPSHAPE	207	72	44	GYPSY LULLABY	121
24	24	ONE DESIRE	206	72	39	INDIGLOW	121
25	16	ORANGE PARADE	205	74	78	COMMENTARY	120
26	17	ULTRAPOISE	200	74	85	EVER AND EVER	120
27		LIME FIZZ	193	76	49	FLUTED HAVEN	119
28	33	WILD GINGER	187	77	93	DIPLOMACY	117
29	14	PACIFIC PANORAMA	175	77	71	SWAHILI	117
30	52	BLUE PETTICOATS	183	79		CALIENTE	116
31	45	MUSIC MAKER	183	79		HIGH LIFE	116
32	74	WEST COAST	181	81		BAYBERRY CANDLE	114
33	12	ROCOCO	175	81	49	RIBBON ROUND	114
34		RASPBERRY RIPPLES		83	42	OLYMPIC TORCH	112
			174	84	29	CELESTIAL SNOW	111
35	36	MILESTONE	173	85	38	HENRY SHAW	108
36	13	ALLEGIANCE	172	85	80	MARTEL	108
37	48	MOON RIVER	167	85		STUDY IN BLACK	108
38	37	DENVER MINT	165	88		BUFFY	107
39	46	ROYAL GOLD	164	88	84	CAMBODIA	107
40	32	STERLING SILVER	159	90	55	ELEANOR'S PRIDE	106
41	26	BLUE SAPPHIRE	158	91		CHARMAINE	105
42	39	EDENITE	157	92		MINNESOTA GLITTERS	
42	27	VIOLET HARMONY	157				102
44		LAUNCHING PAD	155	93	90	MATINATA	100
45	35	AMIGO'S GUITAR	153	94		TAMBOURINE	99
46	66	FLIGHT OF ANGELS	144	95	60	CELESTIAL GLORY	98
47	30	CAYENNE CAPERS	143	96	85	ROYAL TOUCH	98
47	68	RETA FRY	143	97	77	JAVA DOVE	97
49	47	MAY MELODY	142	98		CHARMED CIRCLE	96
49	53	WARLORD	142	99		LATIN LOVER	96
51	85	BARCELONA	141	100	83	SEASIDE	95

Judges Choice - 1971

Tall Bearded

Votes Variety

261 RASPBERRY RIPPLES
(Niswonger)
216 KILT LILT (Gibson)
210 SHIPSHAPE (Babson)
207 LIME FIZZ (Schreiners)
189 TOUCHE (Hamblen)
136 NEWLY RICH (Varner)
113 PINK SLEIGH (Rudolph)
112 ERMINE ROBE (Schreiners)
108 SON OF STAR (Plough)
105 CHARMED CIRCLE (Keppel)
104 FLUTTER OF PLEATS (Ohl)
104 YANKEE BOY (Gadd)
92 BAYBERRY CANDLE
(DeForest)
87 TAMBOURINE (Babson)

Votes Variety

86 LATIN LOVER (Shoop)
85 BUFFY (O. Brown)
84 LILAC TREAT (Niswonger)
84 LORD BALTIMORE (Nearpass)
79 ANGEL UNAWARES (Terrell)
78 MANDARIN MOON (Moldovan)
72 BUTTERED POPCORN
(D. Palmer)
69 HEY LOOKY (W. F. Brown)
68 DUTCH CHOCOLATE (Schreiners)
66 CHARCOAL (Plough)
65 BALLYHOO (Keppel)
65 CHERRY ACCENT (Hamblen)
65 NIGHT OWL (Schreiners)

Runnersup

Sixty-two votes, FOND WISH, LILAC MIST; 61, GLAZED ORANGE; 57, PINK BALLET; 56, CARO NOME, ON TARGET; 55, EMMA LOUISA; 53, BUBBLING CHAMPAGNE, BURNING DESIRE; 52, CINNAMON TART, YELLOW CHIFFON; 51, BEAUX ARTS, CHERRY JUBILEE, SABER DANCE; 49, JAKARTA; 47, GRAPE FESTIVAL; 46, MOLTEN EMBERS; 45, GRAND WALTZ; 44, BIG LEAGUE, CHIM CHIM CHEREE, FIFTY GRAND; 43, BLACK BART, KENTUCKY HILLS; 42, CARILLON FESTIVAL, SNOW CLOUD; 41, POP O SHA, REGALAIRE, SAILOR TOGS; 40, BAMBOO CURTAIN, HAPPINESS IS, OVATION, PICTURE PERFECT, REPARTEE, SPRINGTIME FANTASY, SYMPHONETTE.

Miniature Dwarf Bearded

66 LEMON PUFF (Dunbar)
59 CANARY CAPER (Roberts)
52 MINI-PLIC (A. Brown)
49 DOLL HOUSE (A. Brown)

44 HONEY BEAR (Mahood)
43 BUTTERCUP CHARM (A. Brown)
27 RED CUTIE (A. Brown)

Standard Dwarf Bearded

199 GINGERBREAD MAN (B. Jones)
89 COTTON BLOSSOM (B. Jones)
63 LACED LEMONADE
(Warburton)
58 WOW (A. Brown)
41 PEANUTS (Hager)
40 SILKIE (Hager)
37 PUPPET (Hager)

Runnersup

Thirty-three votes, TOMINGO; 31, IRISH SEA; 30, PRECIOUS ONE.

Intermediate Bearded

- | | |
|----------------------------------|---------------------------|
| 80 AZURE ECHO (Durrance) | 57 EARLY EDITION (Keppel) |
| 79 BUTTERSCOTCH FRILLS (Hamblen) | 54 ORANGE RIOT (A. Brown) |
| 61 LILAC LILT (A. Brown) | 39 AQUARIUS (Moldovan) |
| | 39 PALE CLOUD (Keppel) |

Runnersup

Thirty-eight votes, BROWN DOLL; 36, FROSTED CREAM: 30, BERRY PARFAIT.

Border Bearded

- | | |
|------------------------------|-----------------------------|
| 90 MOLTEN GLASS (Marsh) | 60 GIRL GUIDE (H. Reynolds) |
| 89 OLIVE COCKTAIL (A. Brown) | 54 MEXICALI (Keppel) |
| 83 DRESDEN FRILLS (Rudolph) | 52 MAYNARD (Knopf) |
| 68 BOY SCOUT (H. Reynolds) | |

Runnersup

Forty votes, ARDI LOY; 35, MUGGSY; 30, TECATE.

Miniature Tall Bearded

- | | |
|----------------------------|-------------------------------|
| 91 DAINTY CLOUD (A. Brown) | 27 PURPLE HEATHER (Dunderman) |
| 84 BIT O' AFTON (Guild) | 27 ROSEGAY (Kemp) |
| 41 TALKS TO YOU (Kemp) | 26 GLINT O' BRONZE (Guild) |
| 32 NEW IDEA (Hager) | |

Arilbred

- | | |
|---------------------------------|---------------------------------|
| 100 SYRIAN MOON (R. Brizendine) | 29 RADIANT SMILE (Danielson) |
| 33 LOUDMOUTH (Rich) | 29 SARACEN SPLENDOR (M. Rogers) |
| 30 RARE SPICE (D. Foster) | 27 CALIFA KABANG (Graves) |
| 29 PERSIAN STAR (D. Foster) | 27 ROYAL EFFENDI (R. Brown) |

Louisiana

- | | |
|--------------------------------|------------------------------|
| 37 QUEEN OF QUEENS (Holleyman) | 18 BRAMBLE QUEEN (Granger) |
| 24 DELTA STAR (Granger) | 16 SIDNEY CONGER (MacMillan) |
| 22 ILA NUNN (Arny) | 13 LAKE MAUMELLE (Chowning) |
| 21 MRS. IRA NELSON (Arny) | |

Siberian

- | | |
|----------------------------|-------------------------------|
| 80 SWANK (Hager) | 23 PUGET POLKA (Mize-Ruggles) |
| 42 ORVILLE FAY (McEwen) | 21 EARLY BLUEBIRD (McEwen) |
| 32 ID (McGarvery) | 21 FORETELL (McGarvey) |
| 26 GRAND JUNCTION (McCord) | 21 LITTLE WHITE (McEwen) |

Spuria

- | | |
|-----------------------------|--------------------------|
| 153 ARCHIE OWEN (Hager) | 26 FORT RIDGE (Ferguson) |
| 43 HIGHLINE SUNSET (McCown) | 21 PROTEGE (Hager) |
| 41 RUFFLED CANARY (McCown) | 20 RED CLOVER (Ferguson) |
| 38 REDWOOD FALLS (Ferguson) | |

Japanese

- 29 WALKS IN BEAUTY (Rich)

Beardless Natives and Hybrids

24 VALLEY BANNER (Hardy)	20 SWIRLING MIST (Witt)
23 APTOS (Ghio)	18 CALIFIA (Ghio)

Walther Cup

Votes Variety

261 RASPBERRY RIPPLES (Niswonger)

Votes Variety

Runnersup

216 KILT LILT (Gibson)	113 PINK SLEIGH (Rudolph)
210 SHIPSHAPE (Babson)	112 ERMINE ROBE (Schreiners)
207 LIME FIZZ (Schreiners)	108 SON OF STAR (Plough)
199 GINGERBREAD MAN (B. Jones)	105 CHARMED CIRCLE (Keppel)
189 TOUCHE (Hamblen)	104 FLUTTER OF PLEATS (Ohl)
153 ARCHIE OWEN (Hager)	104 YANKEE BOY (Gadd)
136 NEWLY RICH (Varner)	100 SYRIAN MOON (R. Brizendine)

Japanese Awards

Payne Cup

NUMAZU (Hazzard)

Honorable Mention

Votes Variety

12 HUE AND CRY (Maddocks)
10 BLUETONE (Payne)
10 MEMORIAL TRIBUTE (Payne)

Votes Variety

10 ORIENTAL BALLERINA (Payne)
10 PRAIRIE LOVE SONG (Hazzard)
10 STRANGER IN PARADISE (Hager)

ERRATA AWARDS

Page 55, July Bulletin.

HM. KENTUCKY HILLS (Hinkle)

HM. PINK CHEER (Plough)

HM. MOHAWK TRAIL (Markham)

HM. CREME DE CACOA (Sindt)

Page 57. A. Blodgett, 69-39; R. Blodgett, 69-34

Page 58. Galer, BLAZING BONNET

Page 59. Olson, 69-29A for RTGA, instead of 683-1.

We regret these errors, but the getting to the printer the awards, after tabulation, is a matter of speed. The rest of the Bulletin already is printed, and mailing awaits these pages of awards, and the pressure is on to get the Bulletin to members without further delay. To attain the earliest possible mailing of the Bulletin, we have to make corrections after, in the October Bulletin.

AIS GOLDEN ANNIVERSARY MEDALS

Antique Bronze	\$1.25
Plastic boxes with green foam rubber pad20

Honor your local iris greats

Cal-Sibes

A Promising Group of Beardless Iris Hybrids

Jean Witt

The flowers in the accompanying photographs are examples of a type of beardless species cross that has caught the attention of a growing number of iris breeders in Washington and Oregon in recent years. Popularly spoken of as Cal-Sibes (short a, long i), they are hybrids between the various species of the series *Californicae* and the various species of their across-the-Pacific counterparts of the series *Sibiricae*, particularly the 40-chromosome group. Crosses of this type are not new, of course. A number of such combinations were tried out in England during the 1920's. Perry's catalog of that era lists several named varieties, the most famous of which is MARGOT HOLMES, the English Dykes Medal winner of 1927. Interest then seems to have waned, and while MARGOT HOLMES was grown and admired in U.S. gardens, apparently it did not occur to anyone to try similar crosses.

Lee Lenz's article on the origin of his ROYAL CALIFORNIAN was the spark that lit the present interest². We read it and decided to see what we could do. Our first attempt, a cross between *I. chrysophylla* and *I. forrestii*, was reported in the AIS Bulletin³. About the same time Leona Mahood discovered a chance Cal-Sibe seedling in *I. douglasiana* progeny, which she subsequently registered as FAIR COLLEEN⁴. She had MARGOT HOLMES, and we had from Roy Davidson an *I. tenax* hybrid that someone had discovered in Oregon. We compared notes, and discussed the matter in some of our species and natives robins, and word got around that Cal-Sibes were a field that could well be explored further. Orpha Salsman, Lorena Reid, and Bob Schreiner are among people currently raising this type; and there are probably others that I have not heard about.

Most of the 40-chromosome Siberians available in England in Perry's day are grown in the U.S. now—velvety red-black *I. chrysographes*, butter yellow *I. forrestii*, its paler later counterpart *I. wilsonii*, blue to violet *I. clarkei*, tall late *I. delavayi*, spotted *I. bulleyana*, and something that may be *I. dykesii*. These species cross within their own group rather easily. As much of our stock was raised from seed, many of our clones are obvious hybrids, some of them with



Upper left, the hybrid Siberian, CAMOUFLAGE, typical of flower form in the 40 chromosome *Sibiricae*; lower left, *I. douglasiana*, showing typical flower form in the *Californicae*, and pod parent of the Cal-Sibe hybrid, SWIRLING MIST, right.

very considerable garden value, if unknown pedigree. We are somewhat less interested in the 28-chromosome species, *I. sibirica* and *I. sanguinea* and their many garden derivatives, partly because such crosses are a little more difficult to make, but mostly because they lack the yellows.

Any advantage we have over Perry lies mainly with the *Californicae*. He had only a few of the eleven species (and their varieties) available to us today. Modern named clones and collected and selected seedlings run into the hundreds in the full range of iris colors—the background stock is all that any hybridizer could possibly desire. In fact, one might reasonably ask what additional purpose does a Cal-Sibe hybrid serve?

As species lovers in other parts of the U.S. have learned to their sorrow, the lovely *Californicae* are a tender, fussy lot outside their own Pacific Coast states. So our objective is to put their attractive flowers on the more tolerant plant of the *Sibiricae* in the hope of producing hardy clones with hybrid vigor that can be more widely grown. To date, all the progeny from Cal-Sibe crosses have been sterile (colchicine treatment should change this in the not-too-distant future), but at present this is no great handicap, since a virtually unlimited number of parental combinations can be made.

Cal-Sibe hybrids are good garden subjects. In their grassy, deciduous foliage and upright stems they favor the Siberian parent; their flowers bear more resemblance to the Californian side. Two flowers to the stem is the rule, as with the parents, but a well-grown clump has dozens of stems. The potential for more flowers per stem exists, since *I. clarkei* among the *Sibiricae* has a branched stem, as does *I. douglasiana* among the *Californicae*. Height varies from 10" to 2½', but could go more in *I. delavayi* crosses.

So far, we have bloomed seedlings from a mere handful of the total number of possibilities. These have involved primarily *I. douglasiana*, *I. tenax*, and *I. innominata* on the Californian side, and *I. chrysographes*, *I. chrysographes* hybrids, *I. forrestii* and *I. clarkei* on the Siberian side. Crosses can be made in either direction, and we don't really know yet if one has any particular advantage over the other. In practice, more *Californicae* pollen is put on *Sibiricae* than the reverse, since most species of the former series bloom a little ahead of most of those of the latter series. Pollen is taken from unopened Californian flowers, stored and applied to freshly or artificially opened Siberians with a brush. The number of takes is fairly high, and though not all the resulting seeds are viable, an encouraging number germinate. Plants usually bloom about



Cal-Sibe hybrid, EL TIGRE, *I. innominata* x yellow Siberian seedling. Yellow with brown markings.

the second or third year, and bloom more or less coincides with TB peak. The chief problem is catching enough unopened flowers on plants with 2-flowered stalks. Pollen of *Californicae* pops to the four winds the minute the flowers are opened. Siberian pollen goes almost as quickly, and both series self-pollinate liberally in the process. Pollen added to an open flower seldom seems to be reflected in the seedlings. This being the case, how does one identify a true hybrid? Where a member of the *Californicae* is the pod parent, there is no problem; the typical triangular flanges from the petal bases of the *Sibiricae* carry through into the hybrid and will serve as positive identification. For the reciprocal cross, more traits must be tallied: sterility (parental groups are conspicuously fertile), intermediate general appearance, and (except where *I. clarkei* is involved) a stem partially filled with tissue instead of strictly solid or strictly hollow.

The number of registered Cal-Sibe hybrids is still limited, but the color range is nearly complete. Besides MARGOT HOLMES, ROYAL CALIFORNIAN, and the above mentioned *I. tenax* hybrid, which has the garden name 'BY-A-BEE', all in variations of violet, we have the cream and violet SWIRLING MIST, the very light blue FAIR COLLEEN, the somewhat darker blue SPACE CHILD, the yellow and brown spotted EL TIGRE, and the coffee tan and red DESERT DREAM. 1971 registrations include the golden yellow *I. innominata* hybrid, SUMMERLAND; the light violet *I. douglasiana* hybrid PACIFIC WAVES; and by all odds the most unusual flower yet, PANSY EYES. Its wide-petalled, ruffled flower has rosy-buff standards and styles with wine midribs and rosy wine velvet eye-spots shading out to red over buff. Other seedlings are on the way in the gardens of various breeders.

Cal-Sibes will be blooming in the species beds at Salem, Oregon, in 1972—watch for them. We think this is going to be a group to keep your eye on. If enough of them prove hardy, they may be the answer for gardeners who would like to grow the *Californicae* and can't.

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Oregon in '72

The First Day

Bennett Jones

When you come to the convention in Oregon next May, you will be taken to Canby for the first day of garden tours, where you will visit the gardens of Mrs. Fred DeForest and Chet Tompkins.

Compared with other iris gardens to be seen while you are here, the DeForest garden is not a large one, but is a giant in what it has given us over the years. I was there to see them before they were introduced and shall never forget the beautiful clump of REHOBETH, ARGUS PHEASANT and FRANCES KENT. A little later it was VIOLET HILLS and DAWN CREST, followed more recently by HIGH ABOVE, CIRCLE D, BLUEBELL LANE and BAYBERRY CANDLE. Last year it was the amusing ADMIRAL SIDEBURNS, medium violet with a red-brown area on the falls resembling sideburns; and ALENETTE, a large cream colored flower with touches of gilt.

That there will be something new and beautiful to see next year goes without saying—there always is. You will enjoy your visit to Irisnoll.

Not far away is Chet Tompkins' Fleur de Lis Gardens, an acre of show garden enclosed on three sides by a tall hedge of arborvitae and filled with guest irises and Chet's own introductions. Here, too, in a bed eight feet deep and perhaps sixty feet long is a collection of species irises, West Coast native irises and their hybrids. We are indebted to Jean Witt, Ruth Hardy, Laurie Reid, Roy Davidson and other specialists for this display which I assure you is most unusual and worthwhile.

From DEFIANCE and ALLAGLOW to OVATION, TINSEL TOWN and UPROAR, the list of outstanding irises from Chet is long and varied. RESTLESS WAVES, RIBBON ROUND, STARBURST and CAMELOT ROSE are only a few which have won honors. Even from a list of so many really fine irises, one eventually decides upon a favorite or two and TINSEL TOWN is one of mine. It has been around long enough now that little more need be said of its beauty or its steady performance around the country, but a great deal may be said of the seedlings from it which you will see next spring. COMMAND PERFORMANCE is one of them and, as it looked last spring, it might also soon become one of the favorites. Beautifully formed flowers of bright deep gold, with a touch of lace, are carried on tall well-branched stalks as strong as those of its parent. Among many yellows, this one stands out. Another is GRAND MANOR, a heavily ruffled deep amber pink from a cross of TINSEL TOWN and OVATION; and you will like TRILLIUM, a huge heavily laced white with a lemon beard from TINSEL TOWN and ARCTIC FLAME.

From its lofty position on the ballot, there is no further need to extoll the virtues of CAMELOT ROSE either, though I am sure you will be interested in one of its seedlings. If it hasn't been named by then, look for number 70-34, which has standards of rich tahitian pink and bright red falls with an undertone of pink. The beard is fiery red, the plant is vigorous, as you would expect a seedling of CAMELOT ROSE to be.

In the guest iris portion of the garden, there is a rather complete collection of the newest pink irises for your study and comparison. Nate Rudolph's PINK SLEIGH, which he calls the blue-pink, is indeed a pink with a blue cast. It grew

to a little above medium height and size, with nice proportion. George Shoop's GAY IMAGE is one of the taller, larger flowered pinks with cream pink standards, its deeper colored falls are wide, round and nearly horizontal. Joe Gatty has entered the field of pink irises with PRINCESS, an iris with well-branched stalks, plenty of buds and broad laced pink flowers.

Steve Varner's HATARI, a tailored warm pink carrying a number of flowers to the stalk, was as fine here as it was in Carol Ramsey's garden in Wichita. Glen Corlew continues his very distinct line of pink irises with DREAM OF LOVE and SECRET HEART.

Though it wasn't very far from home, twenty-five minutes to be exact, I was pleased to see ELIZABETH STUART still a different approach to pink, doing as well as I hoped she would. Whatever your idea of pink, it is all here, done up in the most fashionable way.

George Mayberry's 65-2-2 is a very good apricot-orange, with a deeper colored beard; clear, clean color; a well-formed flower. His 66-46-4, I noted, was singled out by a number of photographers and note-takers. A tall large-flowered orchid, with a fine red beard. A nice advancement in this color. Sanford Babson's SHIPSHAPE requires no further introduction. It is one of the really fine irises of the day, a very strong grower, beautifully formed flowers of deep marine blue command attention from any part of the garden.

There is always more than irises to see at Chet's. Earlier in the year there is a collection of trilliums, later in the summer a collection of dahlias. While you are there you might be interested in a collection of spruce from around the world, a beautiful Cedar of Lebanon and a palm tree. Two clones of painted daisies being

REMINDER TO CONTRIBUTORS OF GUEST IRISES OREGON '72

Region 13, and more particularly, the Guest Iris Committee, are deeply grateful to each of you for your friendly spirit of cooperation; for your understanding attitude and for the overall exceptionally fine plants provided. Without your many expressions of best wishes and encouragement, this would be a repetitious and tedious assignment. You are making it a fascinating experience in pleasure.

To make correct listings in the program booklet and on the name plates, we need your assistance once again. When seedlings under number are named and/or introduced it is the responsibility of the contributor to notify the Guest Iris CHAIRMAN, in writing, prior to NOVEMBER 15, 1971. In the event a named variety has been or is being introduced since being sent as a guest, the contributor will also notify the CHAIRMAN of the YEAR OF INTRODUCTION. Again, THANK YOU!

Ronald J. Beattie, 866 NE Wait,
Canby, Oregon 97013

propagated will surely win your attention for a time.

The first day in Oregon will be all any irisarian could wish for and we hope you will be here to share it with us.

IMPORTANT

To Those With Guest Irises In The Oregon Convention Gardens

Your named and registered irises which have not won the HM award are eligible to go on the ballot for FAVORITE GUEST IRISES. Please send the information to the below listed address.

WASHINGTON and OREGON HYBRIDIZERS. Your registered and introduced irises are eligible to appear on the ballot for the PRESIDENTS CUP. If they are guests in the Oregon convention gardens, please send the names to the below listed address.

Ronald J. Beattie

866 NE Wait

Canby, Oregon 97013

Early Maturity

Obtaining Early Maturity in Seedlings in the North

Dr. Currier McEwen

The subject matter of this article has been recently presented in the Journal of the American Hemerocalis Society (1). At the risk of being repetitious, I am submitting it again here in briefer form because of the practical aid the described method can be to northern hybridizers of irises.

Efforts in the past to hasten maturity by starting seeds early in the greenhouse have been reported to have been disappointing because, although the seedlings made good growth in the flats, they were set back sharply when transplanted.

During the past few years, we have started seeds of Siberian and Japanese irises and daylilies in our 'plant room' under fluorescent lights in late February and March in Multipots and have been most pleasantly surprised by the results. Multipots* are a West German product developed by Mr. Hermann Helfert. They consist of pots of various sizes pressed in sheets of either white P.V.C. or green polystyrene (the former cost slightly more but are much more durable). The sheets are all the same size (11³/₄ by 20 in.) and hence the number of pots in them depends on the size of the pots. I have used No. 35, which are 3.5 cm. in diameter by 4 cm. deep, with 96 in a sheet; and No. 60, which measures 6 cm. by 6 cm., and come 38 in a sheet. The great advantage in using these individually separated pots is that the roots make excellent and dense growth in the Jiffy Mix with which we fill the pots, but cannot become entwined with those of the other plants. If they outgrow the No. 35 pots before they can be planted out of doors, we transplant them into those of the No. 60 size; and this and the ultimate

planting into the garden rows is accomplished with essentially no setback to growth.

Experience during the 1970 and 1971 seasons has been most encouraging. About 2% of the daylily seedlings planted in 1970 bloomed the same September, before further growth was put to an end by the cold weather, which comes to us early in Maine. These had been planted as seeds indoors under lights in March and were transplanted outdoors in May; hence the total time from seed to bloom was six to seven months. During the 1971 season all those seedlings bloomed. This is in sharp contrast to our prior experience when we started the seeds just as early but planted them in ordinary wooden flats. In those earlier years no seedlings bloomed the first year, about one quarter in the second, and the bulk of them did not bloom until the third year after planting. Hence it has been possible to gain a full year. In addition, the plants make excellent increase and are far larger than in previous years. None of the irises bloomed the first year, but they had been lined out six to eight weeks later than the daylilies. In their second year they look like three-year clumps and most of them bloomed.

In view of this experience, I believe early maturity of the seedlings depends largely on two factors: the length of time they can make growth and a robust root system. In earlier Northern efforts to reproduce in the greenhouse results obtained normally in the South, the first of these two factors was met but the second was not. The use of Multipots with their elimination of transplanting shock and root damage has, I believe, made the difference. Certainly the use of multipots is not the only way to avoid root damage; probably peat pots will also serve. I am sure any method will do the trick so long as it: 1. provides a long season of growth and 2. encourages healthy root growth and avoidance of root damage in transplanting. Thus far we have tried this method only with daylilies and Siberian and Japanese irises, but it should serve equally well for tall bearded irises and others.

* We have obtained Multipots from Fred C. Gloeckner & Co., 15 East 26th Street, New York, N.Y. 10010.

(1) McEwen, C.—*The Hemerocalis Journal*, Volume 25, No. 2, Page 41, June 1971.

Scorch

Scorch: Preliminary Test Results

Julius Wadekamper

	<i>Healthy</i>	<i>Scorched</i>
Leaves	No difference in cell structure	
Rhizomes	No difference in cell structure	
Roots	As in healthy plants	External layer of cells deteriorated

We hope to be able to print Mr. Wadekamper's completed study on this phase of his testing.

DALLAS MEMORIAL GARDENS DELIGHT SPRING VISITORS *Elizabeth Bergin Memorial Garden*

Joan Courtney and Marlin Carruth

Glowing reports of the first year of the rejuvenated Samuels-Grand Park Memorial Gardens in Dallas were presented by Miss Mabel Wilkerson, chairman of the Iris Society of Dallas committee for overseeing and maintaining the gardens, at the last business meeting of the Society for the year. Inquiring how many of the local society had visited the park, Miss Wilkerson had an almost unanimous show of hands.

Of the hundreds of newly planted or transplanted rhizomes, only a negligible few were lost or failed to thrive. These are being replaced. There is also a remarkable accuracy in planting and labeling for so large scale undertaking as accomplished by the Dallas Park Department last fall under the supervision of Tom Dickerson and Tom Blagg of the City Park system. The Samuels-Grand location is recognized as the showcase of all Dallas parks, and the beautiful site allocated the Elizabeth Bergin Memorial in this park is fortuitous.

Even in first-year bloom many new irises as well as the well-grown older AMs, oncobreds, and historical varieties made for repeated visits from local connoisseurs as well as casual visitors. The thirteen varieties in the Texas Hybridizer bed all bloomed. The committee will welcome additions from regional hybridizers for the ample space yet in this bed. Also solicited are additions to the AM beds of awards for the past 10 years—two local contributors are giving practically all of the '69 and '70 award winners, and the Daniel Gardens in Abilene have offered gifts in the same categories, as well as Dykes. Additions to the historical, oncobred, dwarf, aril, and border sections are welcome, as well as to the 40 sparkling new varieties growing in the Judges Choice bed, where they will be retained for three years after appearing on this list.

It is the wish of all concerned to have as wide participation as possible in the development of the Memorial Gardens. Besides the initial Memorial gifts totaling nearly \$750.00 from countless friends, civic, professional, and garden organizations, including the Iris Society of Dallas, the Big D Iris Society, and the Phillips Iris Society, recognition was given in the spring report for generous gifts from such national iris figures as Melba Hamblen, Cliff Benson, Z. G. Benson, Steve Varner, Helen Reynolds, the Schreiners, Opal Brown; and state donors J. H. Burge, H. H. Henkleman, Mrs. Ollie Mae Knapper and Tom Hughes. All proceeds from an August sale in the gardens of Leon Wolford of Dallas, rhizomes contributed by the Wolfords, were turned over to the garden fund.

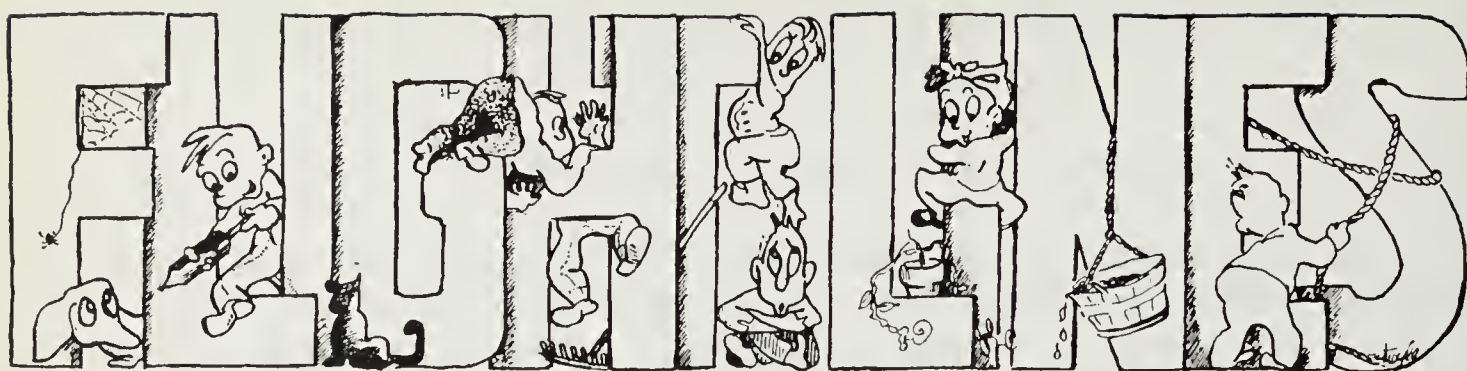
HANDBOOK FOR THE AMERICAN IRIS SOCIETY MEMBERS AND OFFICERS

\$2.00

AMERICAN IRIS SOCIETY

2315 Tower Grove Avenue

St. Louis, Mo. 63110



Mr. Julius Wadekamper, Editor

HOW TO JOIN A ROBIN

All AIS members are urged to take advantage of our main line of membership communication. Select the topic that interests you and send your application directly to the chairman. It will help us to place you if you will tell us something of your garden, your experience with irises, and about yourself. Nearly 300 robins in 25 different topics are available.

General Chairman Mrs. Meredith Christlieb, RFD 1, Severy, Kan. 67137

Irises in General (great for Beginners) Mrs. L. S. Legner, Box 225, White Fence Acres, Rochester, Ill. 62563

Tall Bearded: Mrs. Barbara Whitehouse, 158 W. Bacon St., Plainville, Mass. 02762.

International Robins: Mrs. Jesse Herd, Box 57, Jacksboro, Texas 76056.

Hybridizing Robins (Advanced, Average, Beginner): Dolores Hoburg, RD 3, Cedar Run Road, Allison Park, Pa. 15101

Smaller Bearded Irises (includes Medians in General, Median Hybridizing, special rounds for MDB, SDB, MTB, BB, and Aril-medians). Mr. Albert Ellis, 19 McClure Ave., Brantford, Ontario Canada

Aril-Arilbred Irises: Mrs. Joseph E. Terrill, R 1, Burlingame, Kan. 66413

Artistic Division (Arts-Crafts, Designer-Arrangers, Antiques-Artifacts Collecting): Mrs. Merrill Johnson, 2275 Kensington Ave., Salt Lake City, Utah 84108

Beardless Irises (Spuria, Siberian, Japanese, Species & Natives, Japanese, Louisiana) Mrs. Alan Reid, 17225 McKenzie Hwy., Rte #2, Springfield, Oregon 97477

Historical Mrs. Harriet Segesseman, 330 Crescent Drive, Franklin Lanes, N.J. 07417

Regional Robins: Your Region Robin Rep or Mrs. Hoyt Smith, 138 Ridge Rd., Little Rock, Ark. 72207

Reblooming Irises: Edwin Rundlett, 1 Fairview Ave., Staten Island, N. Y. 10314

Teens and Twenties: Iris Smith, Box 127, Hitchcock, Oklahoma 73774

One of the advantages of your AIS membership is the privilege to join a Round Robin. Robins are formed by about ten people, mutually interested in a topic related to irises: iris culture, hybridizing or even collecting artifacts with an iris motif.

Many friendships have been formed through the Robins. People who have corresponded for years at some time find an opportunity to meet personally, and such a meeting is like an old homecoming.

The general chairman of all Robins is Leda Christlieb, R. 1, Severy, KS. 67137. If you are interested in joining a Robin, write to Leda and she will place you in one at the earliest convenience. Be sure you indicate to her your area of preference.

All Robins have, or should have, reporters who read the letters for items of general interest. Send this information to me: Julius Wadekamper, 2231 Hillside, St. Paul, MN 55108, for publication in Flight Lines.

During the Wichita convention, I heard many comments about Flight Lines. First, it is unanimously appreciated by the members. Second, there was some criticism as to content, with too much about some topics and too little about others. But we can publish only that which we receive, and not all of that, if information is not of general interest or information is too scanty. So unless you send a lot of information, only a little can be printed. I would like to see comments from many new people, as well as the regular contributors, so keep the information coming.

While I am commenting about Robins, two remarks may be in order. First, do not fill Robin letters with personal information about your health and that of your relatives. Sometimes a few comments about general conditions may be warranted, but generally speaking people are not interested in long medical reports. Second, keep the Robins moving. When news gets very old, interest is lost. I belong to two Robins, the Red Speical and the Blue Bearded White, and unfortunately I have not received either for over a year. This is a long time for information that I eagerly look forward to receiving. Do not keep the Robin over ten days, and if possible get it off sooner. It probably is better to write a small amount of pertinent information than many pages of things that are not interesting. The objective should not be quantity, but rather quality.

Species, Native Irises and Miscellaneous

Lorena Reid (OR) writes on April 19 that WINTER SNOWFLAKES and WINTER TREASURE, named clones of *I. unguicularis*, are blooming, WINTER SNOWFLAKES with bloom on all three divisions planted as single rhizomes; WINTER TREASURE on the two on which Hormodin No. 2 were used. Edith Cleaves (CA) reports a most satisfying year for species bloom, both in size and number of flowers. *I. versicolor rosea* in particular is a very nice flower, claret red and velvety. NADA (*I. japonica* X *I. wattii*, two crested species) started blooming February 1 and on May 3 still was producing flowers. Those she stuck in sand lasted the longest. Bill Gunther (CA) "The water species seem to be having a good year. May 29, *I. laevigata*, *virginica*, *pseudocoris* and *kaempferi* all are in bloom. I think the most spectacular of these is one form of *I. laevigata* which is a large white with enough substance to hold a very definite stance. Blossom size is comparable to *I. ochroleuca*, but substance and tailoring, as is stance, are more comparable to the *sibericas*. *I. foetidissima* opened yesterday. This species with its very subtle color fascinates me each time I see it in bloom. Some gardens in this area have better luck with it than I do. I have been told that in a shady, not too moist, spot this species will fend for itself. My garden has very few shady spots, and the whole garden is kept moist because of the interspersed water-loving irises; I don't like segregation in the garden any better than in society." Bonnie Bower (CA): "Some of my *pseudocorus* are going wild; one is taller than my head. I guess they really like being planted around the

duck's water tub where they get all that extra moisture. The Louisianas do well there too. My BLACK WIDOW even bloomed this year; this one has been shy both on increase and bloom for me. The Japanese irises are a natural for anyone who grows Louisianas; they like the same kind of culture. There is nothing as restful looking as a clump of snow white Japanese irises reflected in a pool of water." Ila Nunn (TX) writes that she has been growing her better Louisianas around the spuria beds, but with poor showing. She doubts that drowth is the sole cause, but that the soil may no longer be acid enough and that it is too packed and lacks organic ingredients.

The Californians put on a superb show of spurias at Wichita, bringing specimens all the way from California by van. I reveled at seeing so many I had not seen before and was amazed at the size of the new cultivars. Eleanor McCown's HIGHLINE LAVENDER on the registration table was breathtakingly beautiful. Ralph Brookshire (TX): I have a few Louisianas that I have flooded every two weeks, and growth and increase look good. Leda Christlieb (KS) reports success in growing *pseudocorus*, *douglasiana*, *innominata*, *gatseii* seedlings in the greenhouse. Dorothy Hamilton (MA) reports that WHITE SWIRL rebloomed. Though Siberians can be planted anytime with care and common sense, there is a time in the fall when they start to rest when they are almost transplant foolproof. Ruth Rummel (PA) reports that Sidney Lenniger of B.I.S. tells that hybrids between *I. siberica* and *I. mirza citronella* are made quite often, and while looking like *siberica* they often have the orange blaze. Tell Muhlestein (UT), in the Region 12 Yearbook: Few collected species have the desired characteristics we are going for in the new hybridizers' creations making the headlines today, and it takes a rather brave and persistent person to make crosses of species such as *I. balkana*, *mellita*, the *pumilas* and various other dwarfs as *reichenbachii* and *aphylla*. That great things have come from these is evident, but the road to success is not sudden and few are the hybrids (first generation) that are good enough to name. Usually it takes three to five generations to obtain results. Paul Cook's PROGENITOR, for example, was felt unworthy of introduction, yet he gave generously of it to everyone who had a desire for the plant. His success with PROGENITOR came not in the first generation, nor the second, but in later generations. The spot factors from dwarfs and species *I. balkana* are showing up in their offering; and Joseph Ghio's OPENING ROUND is one of these. *I. aphylla* has unusually good branching to contribute; this iris being one of the parents of BLUE BOY, a reliable iris standby of earlier years, and in the parentage of DYMIA, which Schreiners used to get the nicely branched BLUE BARON.

In the same publication, Ben Hager writes: Spuria iris stand alone among the four major groups of beardless iris, in that they want neutral to alkaline soil to grow in. At least two other beardless iris varieties, *I. unguicularis* and *I. ensata*, also grow best in this type of soil. All three want sharp drainage and no soggy soil conditions. Three major beardless iris groups, Louisiana, Japanese and Siberian, must all have acid soil. This acid condition is easily achieved in your garden. Just add one pound of soil sulfur per one hundred square feet of area to the soil and mix it in quite thoroughly. Lime will actually kill Japanese iris. Do not plant Japanese iris near concrete or plaster installations where leaching might occur.

Spurias

Ruth Davis (KS) reports that ESSAY grows fast, and has lots of bloom over a short period of time. Clarke Cosgrove (CA) spent the last hours of a day in

June in the Botanic Gardens of Hamilton, Ont., where the median irises were just blooming and the TBs just starting to throw up bloomstalks. Clarke further reports that although it will be several years before they can move to their new ranch, the spurias and Louisianas will be planted this fall. There will be a 200 foot row of spurias and over 1,000 Louisianas for the 1975 convention. The Cosgroves are checking on miniature donkeys in New Jersey, and will feature these donkeys, Macademia nuts and irises for the convention. Dorothy Loomis (CA) reports that rabbit manure and superphosphate work wonders on spurias. Carl Jones (CA) reports that unpredictable weather does to irises in the Lucerne Valley, having TBs and oncos in bloom June 22, as a result of being set out late, blown out by several thunder storms, dried out, and reset three or four times.

Edith Cleaves reports that she cuts back spuria leaves to about six inches around the last part of August or the first of September, with no harmful effect, and new growth seems to start sooner. Transplanting slows down spurias tremendously and the shock takes them much longer to start new foliage.

General Culture

Helen Watters (MO) would like to see information on irises compiled and probably eventually placed on IBM cards for quick retrieval. She has in mind such information as name, date of introduction, color classification, dominant and recessive qualities, type of foliage and fragrance. Ed Hubbard (VA) has compiled a list of irises that transmit "gold edges," and has traced them back three generations in the hope of establishing parents that will transmit "gold edges."

Margaret Finch (OK) makes labels from Venetian blinds and coat hanger wire. "Scrub slats with cleanser, sand and spray paint before putting on label. Put wire through bottom, and out the top and down from front over 1/2". Punch holes with hammer and nail." Mrs. O. A. Bakke (MN) uses the same type of garden marker, but with heavier wire.

Texas people write about what they would like to see in their seedling patches. Peg Williams: Huge ruffled brown with substance like MUSIC MAKER, branching like MARY McCLELLAN and the form of RUTH'S LOVE. Brunette Sewell: Strong pink with an orange beard that can take our hot dry weather. Eunice Smith: A pink plicata, and Thresa Holmes adds, "Or pink amonea." Mary Herd: A leathery subenced white or cream with all the petals edged with pink lace; then too I'd like a huge bloom as deep in color as old GOLD SOVEREIGN that could take the wind and heat like GOLDEN DELIGHT, and bloom again in the fall. This ought to be order enough to keep Texas hybridizers busy for a few generations. Did I hear someone say there was nothing more to be done with TBs. For my part I'd like to see a billowing white with a beard like STRANGE MAGIC.

Everett Randles (TX) says if you get orders in hot July or August in Texas, plant, mulch heavily, and water with a soaker hose as needed. Leon Wolford (TX) also waters his plants as often as they dry out, and shades newly planted ones with shingles. Ramona Howard (TX) is in full agreement with the idea of watering both new and old plants when it is dry, and especially before bloom season. She waters right through the winter if there is no rain. Editor's note: With the prevalence of scorch this year from Texas to Minnesota, I would like to hear from these people as to their experience with scorch in relation to their friends who did not water.

Ramona Howard (TX) also feels that in the Lubbock area the best time to transplant is later, and not immediately after the bloom season. The irises are

better rested, fully grown and get off to a good start immediately. She reports 95% bloom the following year. Mary Herd agrees with this for the Jacksboro area: she gives them at least a month's rest after bloom season.

Gary Jones quotes John Wister in noting that "no flower is so universally adapted to the widely differing soils and climates of the American continent." He further notes that most people consider the great range in color as its most valuable contribution to the garden. Gary says that iris foliage is distinctive in landscape design and that it contrasts well with low growing shrubs of both the evergreen and deciduous types. It can be used to great advantage around pools and has a natural association with rocks.

Loren Fondoble (MO) gives a method for planting irises in drought. Since the rains come in September and the irises arrive, often in July, he used to store them in the basement until it rained. This was a very long time in storage. Citing Dr. Randolph's research that irises could stand only 120 degrees, Loren feels that rhizomes often die because they are cooked in hot dry gardens. He runs the rows east and west, and plants the toe of the iris east, roots north and south. He waters slightly and keeps it watered. This is enough moisture to permit root growth, but not quite enough for the leaves to grow. Keep all water away from the fan or rhizome and water every four days in lighter soils. To keep the soil moist and cool, he cuts cedar boughs and uses them as a mulch. When the rains come, the irises really take off.

Forcing irises for indoor bloom is Patricia Adams' (WA) specialty. She pots them and places them in a pit in the backyard along with hyacinths, tulips, and other bulbs for forcing, where she leaves them for 8 to 12 weeks for cold treatment. *Reticulata* and *danfordiae* were beautiful. The SDBs were potted in the fall and brought in the first of January. BRIGHT WHITE was in full bloom in five weeks and THUMBPRINT and others were coming along fine.

Dr. Saddoris (OK): "I used to spray my irises each spring with Captan and Malathion. I had little leaf spot, very few bugs of any kind and rarely any rot of stalks or pods. I have had root rot on occasions when water was more plentiful some years. Root rot is a disease that requires good drainage, and I think the best cure is to soak it in KMnO_4 for a few minutes, leave it in the sunshine until it dries well, then apply sulfur and it is ready to replant. C. A. Cromwell (OK): You know the kids can track up the place; well these "insectivore minutuae" have six feet per each instead of two, and never learn to wipe any of them—only instead of tracking mud, they're tracking rot." Howzat for imagination! Cleo Palmer (OK): The rot problem can be taken care of with Terrachlor. It is far superior to anything I have used and is rather economical at one tablespoon per gallon of water. It really knocks soft rot and crown rot, the two major rots bothering irises.

Edwin Rundlett (NY): A new bulletin, IRIS BORER AND ITS CONTROL, is just out. It is circular 235 of the Conn. Agricultural Experiment Station at New Haven, and is free. It says that adult moths usually emerge in September, and each may lay up to 1,000 eggs. The thing to do is to make a thorough cleanup of spent iris foliage and nearby weeds in late fall and early spring to get rid of the eggs. Then two or three times coat the foliage with recommended insecticides to get young borers before they enter the leaves. Malathion is quite good and reasonably safe to use, but sprayed onto flowers will kill honeybees. Dr. Lloyd Zurbrigg (VA): Definitely some iris varieties attract insects more than others. Light colors seem to attract more, and so does fragrance.

Royce Simmons (CT): Streptomycin has given the best results here of

anything, also Phaltan, for leaf spot. Isotox is the only insecticide I have used and have not had a borer yet.

Elizabeth Martin (VA): "I cut leaves off to the rhizome if a borer has started into an iris plant—get him out and destroy him if he has gotten into the rhizome. Then I clean out the rhizome, wipe or wash well and cover the exposed wound with Comet, Ajax, lime, sulphur or Sevin dust, scrape the dirt down and leave the rhizome exposed to the sun.

Dr. G. Percy Brown (MA): If you cut iris stalks at two inches, the side buds will form rhizomes big enough to bloom. Many times the center bud is frozen or blasted, and you get one or two side rhizomes that will bloom in the spring. It is the side rhizomes that bloom a second or third time, and even the first time, when the center is blasted. Transplanting to new soil gives better summer and fall bloom and (here) should be done every three or four years, or sooner if crowded. (RIR Ed. — I'm told that in parts of Southern California and Texas, annual division is the usual practice, since growth takes place all winter in such places.) Rebloom starts when growth is active all summer. Once started, it continues around a clump of three or four rhizomes. Cultivation, fertilizer and control of leaf spot, as well as watering in dry spells, all help. Again from Dr. Brown: Most traits have genes to control them. Cultural methods help, but the genes have direct control. If an iris grows fast, the bloom cycle is shorter, and summer bloom comes earlier. If all trace elements are present in right amounts, that helps. If it's too hot, that slows growth, and if it's too dry that also slows growth . . . Cultivation stirs up the soil, moves roots to new earth and to trace elements. Too much nitrogen causes leaf growth and slows up bloom (like Rapidgro). Fertilizer with more phosphates and potash gives more bloom. Frequent liquid fertilizing is better than one big dose. Manure with bacterial growth produces a constant or frequent formation of soluble fertilizer. Bone meal is a natural fertilizer with many trace elements that help bloom. New soil has some trace elements not found in used soil. Compost has lots of trace elements . . . Soil should be loose and not hard. Then roots can grow down deep. A clump that has a seed pod won't bloom as early as one that does not. Here a two-year clump blooms earlier than a one-year clump.

Jack Romine (CA): "Generally speaking, most plants are diploids; that is, they have two sets of chromosomes. But occasionally in nature a plant becomes tetraploid with four sets of chromosomes. Most species of iris are still diploids, while almost all modern TBs are now tetraploid. The first tetraploid TB came as a kind of mutation. Apparently after about 33 generations of hybridizing and mixing genes in any flower, tetraploids will naturally occur. A tetraploid simply magnifies any of a plant's predominant characteristics, good or bad. Good pink irises were unavailable until tetraploids came along. With four sets of chromosomes to contend with, the number of potential combinations in a given cross goes up to astronomical figures; hence, the likelihood of unusual breaks in color, etc. By using colchicine, a plant derivative from a fall blooming crocus (*colchicum*), one can induce mutations in plants, if he is lucky. Right now I am working to induce species diploid irises (to mutate), and also to obtain octoploids . . . I use quite a combination of things in my soil. Chiefly I use ground rock phosphate, green sand (trace minerals); kelp for cold resistance, for stimulating bacteria and for trace elements; wood ashes; and, for fertilizer, chiefly horn and bone meal and blood meal. Occasionally I use rose pellets for some special purpose. And I keep some kind of perpetual mulch on things. For the last two years I have found wood chips most satisfactory for mulching, as

they add much to the soil when they decay. I have come to believe that a perpetual mulch does not rob the soil. So far I can see no nitrogen depletion in my plants. However, in first planting an area, I do put down a heavy layer of blood meal and other organic fertilizers on top of the soil, and then mulch."

Elizabeth Reneau (TX): Here's an experience I have had twice with "pineappling" in irises. About ten years ago, I had one plant with this condition, a new one. I had never seen the disease except in pecan trees (called rosetting). The remedy recommended was to spray with zinc sulfate, which I used. Realizing that the growth had been inhibited, I also treated with a minimum dose of nitrogen (ammonium sulfate). The plant lived, and in the future showed no signs of that condition . . . Now the same thing showed up in both my neighbor's garden and in mine, on the same variety of iris, obtained from the same source, a reliable grower. Here again the same remedy was applied. Results: two very good plants at this time. Method of use: zinc sulphate poured over and around the plant; the nitrogen in the soil around the plant. I hope that the Scientific Committee has considered the disease in recent years. It seems prevalent in some areas.

Hybridizing

Mary Herd (TX) read that by keeping seeds under running water increased chances of germination. The result of this information proved most interesting. She placed the seeds in nylon stockings under a dripping water hydrant behind some shrubs. She then became ill and after a lengthy stay in the hospital found the stockings full of sprouted seeds which she had one heck of a time separating from the mesh of the nylon.

Lorena Reid (OR) reports that KNOTTY PINE is a good parent either for other dwarfs or for TBs that are early enough. It carries both plicata and pink genes . . . so can come up with most anything . . . She got one take on WHITE SWIRL X CLAREMONT INDIAN, with only two seeds viable, the rest chaff). (Ed. Note: CLAREMONT INDIAN is a registered clone of *I. innominata*, (mostly).

Bernice Miller (NM): "I am freezing my seeds in this dry climate about two weeks after I harvest them in the creamy dough stage. They seem to be dry enough to keep from killing by freezing and this also seems to hinder the development of whatever substance it is that delays iris germination." Beverly Dopke (MI) plants seeds in one-half gallon cans, waters and places them in the deep freeze. She removes them and plants them in the ground at the proper time. Beverly also prevents loss of seeds from splitting pods by tying pieces of nylon around the ripening seed pods. The nylon is porous enough to let the seed dry and yet prevent any seed from falling to the ground. Bob Schooff (UT) is engaged in an experiment in testing soil temperature as to effect on rebloomers.

Bea Williams (VA) uses gallon bleach jugs cut about 2½" wide and buried in the ground and plants each batch of seeds inside this circle. Leona Mahood (WA): One should use all precaution when making crosses of particular interest, especially such wide crosses as *siberica* species and the *californicas*. First, select a bud which is just beginning to open; open it and remove the pollen; apply the pollen taken from the species; cover at once with some protective covering. Only the flowering of your seedling two or three years later will determine if the cross was true. My seedlings of the *californicas* X *siberica* species have typical fringes of the *sibericas* on the falls, and also show definite characteristics of the *californicae* parent. They have color patterns all their own, usually heavily dotted, whereas neither parent has this characteristic. Also they are infertile.

FAIR COLLEEN occasionally has produced well-formed seed, but none has ever germinated.

Alva Hickerson (OK) reports on good parents, SIVA SIVA X MAD MAID and MILLIONAIRE X DOCTOR K, the latter with good substance and golden color. John Werter (CA) also reports good results in germination from water leached seeds. Earl Stanley (IL) reports 70-2 as the largest among many pinks, and it has vigor. Barbara Whitehouse: "Each time we are awed by the beauty and splendor of the new introductions, we should remember that 99 times out of 100, they wouldn't be there if somebody, somewhere, hadn't put tweezers to stamen and placed pollen on a stigma, for if it were left to the bees we would have no modern irises to admire.

Arils-Arilbreds

Loren Fondoble (MO): One very odd thing happened. In an old abandoned bed we had APPIAN WAY bloom, which we thought we had lost in 1962. There it was blooming in grass 18" tall. Several oncos which I thought I had lost have shown up in this way. Maybe we need to leave them alone and let them establish themselves. Ray Leach (CA): The comment on leaving oncos alone sounds familiar. Most hybridizers are convinced they highly resent being disturbed, even by weeding, so they clip the tops off the weeds rather than pull them. Leda Christlieb (KS): My bloom season was one of the best. I didn't keep the irises as clean last year as I like to. The crab grass especially made a mulch in my SDB-CGW row; they didn't mind a bit.

Rebloomers

Edwin Rundlett (NY): Dr. Scheele told of experiments in the use of reflected sunlight on aluminum to speed rebloom and to cause rebloom on irises that are "reluctant." That compares with the extra earliness due to having irises planted on the sunny side of a white wall or fence . . . Early blooming is definitely a trait of cold climate rebloomers, but not necessarily of warm climate rebloomers.

Ellen Crouch (VA): "We had summer or fall bloom on SUMMER WHITEWINGS, FALL BLUE CONTRAST, SEPTEMBER GLEAM, BLACK MAGIC, SUMMER BOUQUET, AUGUST INDIAN, FALL VIOLET, SANGREAL, GOLD BULLION, VIOLET VIRGO, GOLD BULLION, NORTHERN SPY, EXOTIC FIRE, FIRST SNOWFALL, DEEP DAWN, SUNNY ECHOES, SUMMER FANTASY. The first bloom opened September 10; the last on November 15. The season ended by freezes on November 16. Which reminds the Bulletin editor that old LORELEI broke into bloom on July 18.

Edwin Rundlett: I have observed that the most fragrant varieties that I have tried seemed to have a heavy dosage of *Iris pallida*. I've noticed, too, for our climate anyway, rebloomers are heavily dosed with *Iris variegata*, an iris that rarely has fragrance worthy of our attention, at least a fruity odor and rarely even that. The often crinkled foliage of *pallida* derivatives indicates some winter-tenderness. This does not show every year.

ANN DASCH (MD): "JULY BEAUTY (poor faithful ole dog) has bloomed seven times this year. About every week since May, a new stalk popped up and bloomed, averaging about eight blooms, a bit bunchy but on a good stalk. Last week's (late August) was the first warped stalk. It produced about half its blooms without standards. Things had dried out during our vacation, but since our return they have been given fairly deep and regular waterings. Can anyone give me the real direct cause of warped stems and freak flowers. The previous six times JULY BEAUTY bloomed must have been more auspicious. . . At

Zurbriggs', I enjoyed seeing HALLOWEEN PARTY again. That new Gibson plicata has the clean coloration, substance and garden presence make it a real winner; and it's a definite remontant, as many of us saw its fall stalk at the Regional Board Meeting last year. I got a fairly good slide and used it as an example of a rebloomer on the TV program Maynard Harp and I did in June.

Al Thimsen (VA): A seedling of HAPPY BIRTHDAY X AUTUMN TWILIGHT has almost been an everbloomer. The third bloomstalk bloomed from July 23 to August 8.

Verlie and Curtis Hinkley (MD), Dr. Raymond Scheele (NY), Wynnaline Stinson (TX), give long lists of reliable rebloomers in their areas, and these lists sound decidedly interesting. Wynnaline Stinson likes to plant in mid-August, saying that she has to shade in the heat and use a soil fungicide to beat rot. An interesting observation of hers is that if she digs the rhizome and places it in sand until she is ready to plant, it continues to grow without the roots dying. Mary Herd (TX) reports that when she plants shortly after bloom season, she doesn't find any new roots forming until rain and cooler weather, no matter how much she waters. She notes nematode damage in varying degrees in plants side by side, and wonders if some varieties are more menatode-resistant than others. She planted this year by digging trenches, half filled them with goat manure, then a layer of compost made from hay, grass and weeds, and planted the irises on top of that.

Byron Grebe (AR), Marion Marquiss (MO) and Ted Breth (KS) report that the hot weather and drowth made for sparse rebloom. Ellen Crouch (VA): "Has anyone decided what determines when rebloomers put up fall buds? If we knew the answer to WHEN, perhaps we might figure out how to induce them to start a bud earlier for their second round. If this question were asked of enough growers and the definite answers published, growers might be asked to try them and report back the results. Libby Cross (MD) thinks that the climate grouping according to freeze-free days would be a good way to classify rebloomers for awards. She has found these reports of rebloom tallied by this method extremely useful in figuring which irises to leave in the reblooming iris bed and which to leave with the spring bloomers.

Charles Applegate (OH): "I've read that iris borers lay eggs on mulch or any bit of dead plant material in the vicinity, as well as on dead iris leaves." Evelyn Hayes (CA) wonders if those who live where it is hot and dry might have good luck with a bit of shade. She had a plant of NORTHERN SPY, and she moved part of it to a place where it got nothing but morning sun, and the results were spectacular. On the same subject Edwin Rundlett: "The book that I am reading, 'Experimental Plant Growth' by F. W. Went states that often soil temperatures in sunny places are 20 degrees C. above the nearby air . . . It is rhizome temperatures that determine to a large extent flower stalk initiation. I would think that afternoon shade, in the warmer parts of the country, would benefit irises."

Anne Allen (MD): "To help those 'lost chords' that bloom without increase, I find that next to setting a seed on the stalk, notching the rhizome on each side sometimes promotes the initiation of growth buds between the notch and the 'toe' of the rhizome. On an average sized rhizome I cut a V-shaped notch about 1/4" wide into the side of the rhizome. Then I dust the wound with sulphur dust or even with scouring powder often used for rot prevention. It is not easy to dig up the plant; just pull the dirt away from the wound a bit . . . I had notched each side of the rhizome and an increase appeared below each notch. I also had

set seed on the plant and had two increased at the base of the bloomstalk.

Japanese

Eugene Wagner (OH): The most striking Japanese iris was BEJEWELLED MOGUL. HAPPY AWAKENING, a medium violet with deeper veining, makes an outstanding clump. WOUNDED DRAGON, the ultimate dappled iris from Arlie Payne, finally bloomed, after almost succumbing, and it was a breathtaking as when I first saw it. NIGHT BLIZZARD, the amethyst violet flecked white, is a worthy companion to the light purple color of WOUNDED DRAGON. FUJI GUSAMI was one of the surprises of the season. It is an imposing, large white double, splashed violet-blue in the center. Its bloom season was long and weather did not affect its performance.

A. H. Hazzard (MI) reset a substantial part of his stock last year. He says resetting always reduces the quality of bloom, but he was fortunate in that generous rains helped to improve the quality, and even a number of late fall transplants bloomed.

Bill Ouweneel (IN): Bill reports planting seed in an open box last fall. To protect the plants against rodents, he laid plastic screen underneath the bed, turned up at the sides, and then covered the bed with same. The whole was covered with several inches of wood chips until the seed started germinating in April. He now has the huskiest seedlings he ever has had. The percentage of germination was no better, but he was spared the job of daily watering . . . He has used wood chips as mulch for a year, and believes they are ideal. He gets them from a local tree trimmer at no cost. They are heavy enough not to wash away easily, coarse enough to rot slowly and not drain the soil of nitrogen, and they do a wonderful job of holding down weeds and holding moisture in the clay soil. They are used in beds under field conditions and the soil does not get any benefit from his pond . . . He adds that besides fertilizing his beds with 5-20-20, this year he used the same to make fertilizer solution for seedlings and weak divisions. He uses several gallon jugs which he keeps filled with rainwater, adding a tight fistful of fertilizer to each jug. Jugs usually stand a week or two before he uses them. He shakes the jugs occasionally, and thinks the solution is just as good as the much more expensive solutions. He has had no trouble with burning of foliage.

1972 INTRODUCTIONS

Important

to

Hybridizers and Introducers

Unless you have sent in proof of introduction, and received acknowledgement, send the catalog or printed list to address below. We will start typing *The 1972 Registrations and Introductions for 1971* on November 1.

Kay N. Negus

27226 Lana Lane

Conroe, Texas 77301



Thomas Ford, Editor

Articles, features and photographs for, by or about irisarians under 19 will be published in this section. Please send your contribution to Youth Views Editor, Mr. Thomas Ford, 12627 Oxon Road, Herndon, Virginia 22070.

Late fall, weather turning cool, freezes soon coming on, means one of the most important times of the year in the care of irises. The fall cleanup—just another part of the continuing effort to keep your irises healthy and producing good bloom each spring.

There are almost as many opinions of how to prepare irises for winter as there are members in AIS. All agree that plants should go into the winter free of weeds and with all dead, dried leaves taken off. From there on it's up to the individual grower depending on where he or she lives and what practices have worked best for bringing the irises through the winter in his or her section.

If you're new at growing irises or have been growing them for some time, but are not satisfied with results you've had with your previous winter preparation, then the best thing to do is ask a fellow member in your section (the one who grows the best flowering irises) how he prepares his for winter. Then use his suggestions with an eye to improving them or changing them to suit your own experience the next year.

Practices change as better ways of doing things are found. For instance, years ago most everyone would have told you to cut the iris fans back to about eight inches after the first heavy freezes. In recent years there has been much discussion of this practice and now quite a few growers have said they get better bloom and increase the next season by leaving the fans uncut and taking them off in the spring cleanup. It's claimed the leaves protect the rhizomes from the winter sun and the cold when they dry and bend down over them. Might be interesting to try an experiment leaving one group of fans uncut, cutting back another group, and then comparing the bloom of each the next spring.

Everyone agrees newly set rhizomes, especially those planted as late as September or October, should be mulched for the winter. What to use as mulch is another matter for discussion. Use what is readily available as long as it doesn't pack down around the base of the fans. Straw, pine needles, oak leaves—many types may be used but it all depends on what is available to you. Here, again, asking a more experienced member can save you lots of time and trouble.

In freeze-and-thaw winters even some two-year clumps may heave even when a mulch is used. Some growers have found placing rocks atop the rhizomes will prevent some heaving. Others hill sand or loose, fluffy earth over the rhizomes and a few inches up the fans. With the last practice it's best to check during winter to see that the soil isn't too moist and causing rot.

But in the final saying, it's best to profit from other's experiences. The

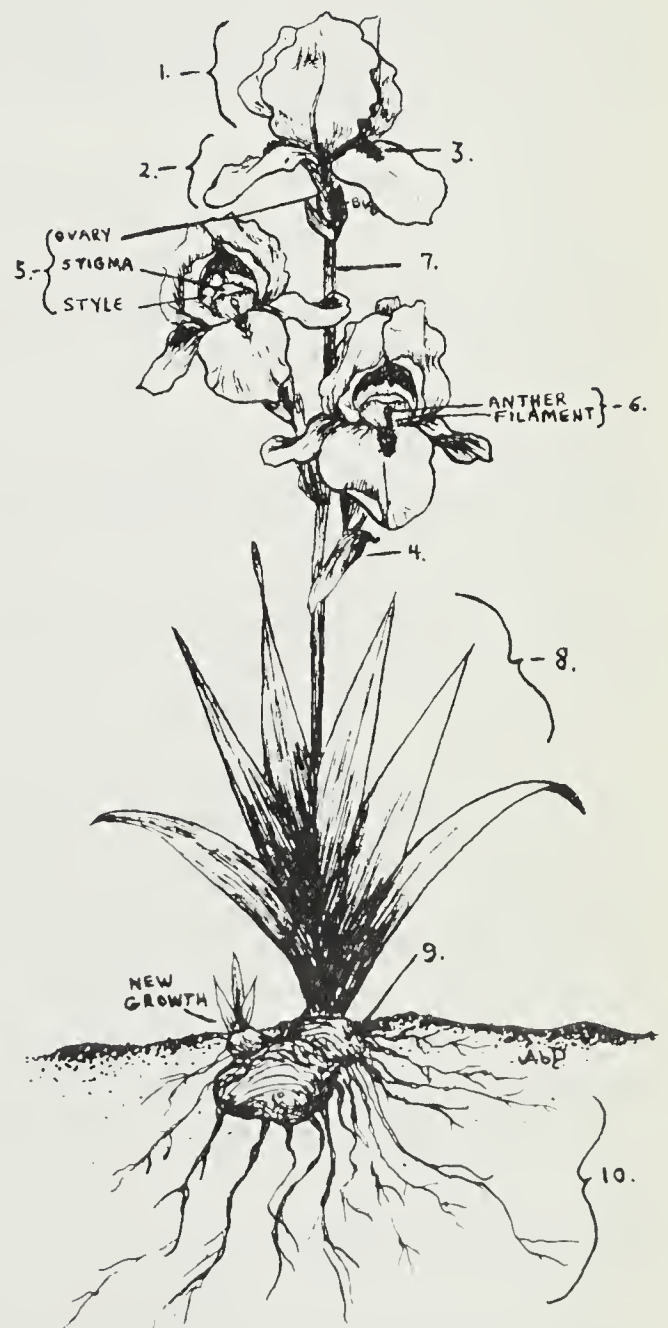
BULLETIN and other publications of the AIS can give you hints on practices to use—read them, then do your own thing when you find an improvement.

What can a young irisarian do when his garden is tucked in for the winter? Read a good book (many libraries have *The Iris Book* by Molly Price) . . . plan a Come-as-an Iris costume party . . . put the file box or notebook with iris varieties in perfect order . . . plan next year's hybridizing with careful research and stated purposes . . . gild an iris pod, glue on a pinback, and make an unusual lapel pin . . . decoupage a catalog photo onto something wooden . . . improve the old or prepare new, better variety markers . . . consider iris-y Christmas presents . . . tell a friend how nice it is to be an AIS Youth Member, and convince him to join us!

BASIC I.Q. (Iris Quiz)

Can you name the bearded iris part described by each rhyme and seen on the illustration?

1. Three arching petals at the top;
They should be starchy, never
flop.
2. The lower petals, crisply blessed,
In perfect proportion to the rest.
3. Whether the iris is mod or old,
Its show of "hair" is an asset bold.
4. A smallish "leaflet" at the base
That wears a green or browning
face.
5. In hybridizing, the female part—
Ovary, style, stigma—the iris heart.
6. The anther and filament come in
threes
Presenting the pollen to "daubers"
or bees.
7. To hold the blooms well and
strong
It must be stalwart bloom-time
long.
8. Several make a fan; they're long
and green,
Vital and graceful in the iris scene.
9. Often barely seen in the garden
plot,
Lumpy, un-lovely but worth a lot.
10. Lithe and curvaceous as knotty
strings;
A healthy iris is rich in these
things.



For answers, see page 82.

Let's start that Youth Iris Club.

Turnin' on with Siberians

Carla Coleman

The Siberian irises must be the most easily grown of all the types of irises. To a sometimes careless gardener like me they have given more pleasure with less care than any of their beardless or bearded relatives.

Several years ago I was given a clump of about six or eight fans of the variety CAESAR'S BROTHER. This was at a very busy time so I wanted to get them in the soil quickly. I'd looked up their culture in the Melrose catalog and noted they made a big thing about keeping the roots moist while out of the soil and also keeping them moist after planting. Luckily, I had space in a bed that my father helped me dig deeply and fertilize. I didn't take much time digging a hole but did make it big enough that I could spread the roots out a bit, but not as deep or wide as I should have done, but . . . rush, rush.

I'd read somewhere about Siberians maybe not blooming the first year after being transplanted. I almost flipped the next May when two bloom stalks pushed up out of the foliage and I thought they were great. I couldn't believe that I'd only spent not more than fifteen minutes planting the clump and they were rewarding me so well.

That was the year I hit the cement bird bath with the lawn mower and broke the base of it. My father didn't get too shook up. He said something like, "Want to have another go at it and see if you can break the top part too?" The bird bath was one of those that the bowl and base are separate and the bowl hadn't broken when it fell. I thought it would be all right sitting on the ground and by some cool luck I put it right in front of the iris bed next to CAESAR'S BROTHER, that was now making a great little clump. Filled with water it was just the thing for the ground sparrows; they loved it and so did CAESAR'S BROTHER. All the water splashed by the birds gave him plenty of moisture during the hot summer and it got plenty when I'd empty the bowl of dirty water to put in fresh water. Melrose says the Siberians don't like too much water in the winter and this worked out very well, too, because the bowl was turned upside down all winter long so they only got water from rain and snow.

The year after, the clump had grown in all directions and spread about half way around the bowl. One warm day in May while the Siberians were in bloom, I was studying for finals and went out to the garden and lay down with my book on the grass in front of the bird bath and its background of Siberian foliage and flowers. The first time I looked up from my book the reflection of the sky with big white clouds and the Siberian foliage and flowers came as a really great surprise. Like I was seeing these things in a new and beautiful way. Every time the breeze would blow the reflections seemed to shimmer and dance as the surface of the water and the Siberian foliage shivered and the flower petals fluttered lightly. I mean it REALLY turned me ON. I hardly got any studying done. I told my father about it and he went out and laid on the ground, too. He said it was really pretty, and restful, so I could tell it turned him on, too.

One day he had to go to Williamsburg, Va., and he passed by a pottery place on the road that sold all kinds of cement garden ornaments. He came back with two big bird bath bowls that he got as a bargain. Each had a chip out of the rim, but they were fine for our purpose. He said he liked my idea about using them in the flower beds and just couldn't pass them up when he saw them. We bought more Siberians to plant around them. We got the short growing varieties because

they look more in balance with a pool the size of a bird bath, my father said.

We've put them in different places in the yard. The first one was in full sun all day long, but Siberians will grow and flower just as well, almost, in part shade or light shade. For us they bloom best when they get at least six hours of sun a day. The other two bowls are where they get sun in the morning, shade from about noon until late afternoon, then sun in the early evening. The shade makes pretty patterns on the leaves and petals and the reflections in the water still turn me on as much as the first time I noticed how beautiful they are.

My father sprays his tall bearded irises often but he doesn't spray my Siberians at all. They've never had any bugs or diseases that have done any damage to them. Sometimes the grasshoppers chew the leaves but not enough to hurt the plants. I know I could move the bowls and he'd spray the irises, but we decided against this since the rain might drip off the leaves later and hurt the birds. It's good the Siberians don't have much of anything to bother them.

When I'm not too busy I help my father to weed the iris beds and I always keep my Siberians and bird baths weeded.

My three Siberian pools cost so little and have given me, my family and the birds so much pleasure I'm almost glad I broke the base of the bird bath. When I get a job I'm going to buy more Siberians and get a big pond so we can get some of the newer and taller ones with the prettier flower form and colors, but I think our older ones are pretty, too.

The Huntsville Junior Iris Club

The Members

Our Junior AIS club has about 20 members. Mrs. Jayne Ritchie is our leader. We are divided into two groups—11 and under, and 12 and over. We have been meeting for a little more than a year.

The first meeting was at a regular meeting of the Huntsville Chapter of AIS at the home of Mrs. R. P. Van Valkenburgh. We divided into groups, took down everyone's name, and took pictures. Mrs. Van Valkenburgh talked about the parts of an iris. Then we swam in the pool and had ice cream.

Our second meeting was at a picnic at the Goatley's. Both groups learned how to plant irises correctly from Mrs. Ritchie.

The third meeting was on Monte Sano, where the adult group has planted irises near Burritt Museum. We weeded the beds, ate a picnic lunch, and went in the museum. Some of the group went on a hike.

Our fourth meeting was at the home of David Lucas. We elected officers. Cindy Chester is president of the younger group. Trina Isaminger is president of the older group and Michelle Ritchie is Secretary. We also tried to learn each others' names, had a drawing for irises, and Mrs. Ritchie gave out Siberian iris seeds.

The fifth meeting was a Halloween party at the Huntsville Community Center. We all dressed in costume and had a lot of fun.

Our sixth meeting was at Mrs. Ritchie's house. We talked about joining the AIS. Then we voted on our dues and decided to pay for each activity as we went along. Mrs. Ritchie told us about the parts of an iris and how to make seeds.

The seventh meeting was held at the home of Carol Burch. Mrs. Arnts explained and showed us how to arrange flowers. We practiced arranging flowers.

Some members later entered arrangements in the iris show.

We had a skating party at Rainbow Skating Rink for our eighth meeting.

Before the irises bloomed, some of the members went to clean up the iris beds at Burritt Museum again. We weeded and cleaned out old leaves.

Many of us were able to help at one of the iris shows. We placed entries, made arrangements, helped to clerk, and helped to clean up afterwards.

Our last meeting so far was at Mrs. Van Valkenburgh's. We looked at her irises. Then we wrote this article. Then we played Pin the Butterfly on the Iris. The adults played, too. We had ice cream and cookies for refreshments.

ANSWERS TO YOUTHVIEWS BASIC IRIS QUIZ

1. Standards
2. Falls
3. Beard
4. Spathe
5. Pistil

6. Stamen
7. Stem
8. Leaves
9. Rhizome
10. Roots

YOUTH MEMBERS

Be sure that you send the news of your club news and your articles to Mr. Ford.



Charlotte Sindt Puts Finishing Touches to an Arrangement



One of the Show Tables at Minneapolis

FOR THE IRIS LIBRARY

THE GOLDEN ANNIVERSARY ISSUE BULLETIN OF THE AMERICAN IRIS SOCIETY. *A Bulletin that is the history of the American Iris Society for the first fifty years.* \$2.00

IRIS CHECK LIST 1969. *A compilation of irises registered and introduced from 1960 through 1969, with pedigrees and descriptions. The Golden Anniversary Check List.* \$6.50

IRIS CHECK LIST 1959. *A compilation as above, for years 1950 through 1959. Until stock is reduced to normal future demands.* \$2.00

IRIS CHECK LIST 1949. *A compilation as above, for years 1940 through 1949.* \$2.50

HANDBOOK FOR JUDGES AND SHOW OFFICIALS. *A must for those who plan to take Judges Training Schools, and valuable for every person who desires to know the standards by which irises are judged. To AIS members, \$1.50; to non-members \$2.00.*

HANDBOOK FOR THE AMERICAN IRIS SOCIETY MEMBERS AND OFFICERS, *written by Ira and Betty Wood. An 84-page encyclopedia of AIS and its activities.* \$2.00

REGISTRATIONS AND INTRODUCTIONS IN 1970 \$1.00

WHAT EVERY IRIS GROWER SHOULD KNOW. *A little 32-page booklet, with twenty-seven pictures in color which we have found interests the public, and can be used to loan to friends and customers to help interest them in irises.* \$1.00

1971 MEMBERSHIP LIST OF THE AMERICAN IRIS SOCIETY. *Up to date as of February 1, 1971.* \$1.50

AND DON'T FORGET *that while the Silver Anniversary Medals are all sold, we still have Bronze Anniversary Medals at \$1.25 each. This is a limited mintage, and serve well as Christmas gifts, awards to outstanding local club, area and Region members, and for special show prizes. They will be offered to coin collectors at \$2.00 apiece after this ad appears.* \$1.25

Plastic boxes as containers for medals, with green foam rubber pad. . . \$0.20

AND REMEMBER: *A membership in the American Iris Society will make a fine Christmas present for that gardening relative or friend.*

THE AMERICAN IRIS SOCIETY

Clifford W. Benson, Secretary

2315 Tower Grove Avenue

St. Louis, Mo. 63110

Incidental Intelligence – IRISKRANKHEIT

Betty Wood

We have it directly from the former secretary of The American Physical Society that in Bern, Switzerland, on Barenplatz, west side, between Spitalstrasse and the Parliament building, ten minutes' walk from the Bahnhof, is a shop with a sign in the window, headed IRISKRANKHEIT. This is German for iris virus, and the sign goes on to describe this as a very pleasurable disease, with which one ought to get infected if one does not have it already. As a good place to contract the infection, the sign recommends the interior of the shop, where one may buy irises of hundreds of different colors. Our friend saw the sign early in August, so these were surely rhizomes for sale, not cut flowers.

Since our correspondent is a scholar, he never uses the plural "irises", preferring the Latin form, "irides", which is in fact given as the plural (along with "irises") in Webster's Collegiate Dictionary, fifth edition.

FROM The EDITOR'S DESK

En route to help judge the Minneapolis show, we stopped off to see the Roger Nelson garden in Wayne. The two hours spent in the garden was indeed a joy, with an amazingly good selection of the very best TBs grown on new soil in a new garden, and with delightful grass paths. It was sheer pleasure to hear Roger talk about each cultivar, in his comparison of virtues and faults. This young man really knows his irises, and we would have to say that his garden is among the top three we visited this year.

The evening of the same day we stopped off to see Larry Harder's garden, where we found a large number of varieties of just about every kind of iris. Larry was gone, but we had the opportunity to compare between good varieties, and make up our minds about some comparisons, and had a pleasant chat with Mrs. Ayers, a long-time member from the Sioux City area.

The Minneapolis show was something. Despite the late season, it seemed to us that the exhibits stretched on and on, and the quality was good. This show, housed in a sort of lobby on the second floor of a huge shopping center, must have drawn a crowd of 20,000. The job of selecting the Queen of the Show got pretty knotty when we got down to the last two or three, but we finally placed the ribbon on a stalk of JOLIE with large and crisp blooms. Greta Kessenick's collection also was a delight to see. Those who plan record shows would do well to study this Twin Cities format.

IRIS JEWELRY

Iris design hand painted on porcelain. Bracelets, earrings, pins, cuff links, available to irisarians. More information sent on request.

Mrs. Grant D. Kegerise

501 Penna. Ave.

Hyde Park, Reading, Pa. 19605

We took the opportunity to visit MayBelle Wright's garden again, although it was just a little off-season for her medians. We also visited Greta Kessenick's garden, and while she was not at home, we spent a couple hours in the garden. Her irises grow rampantly, so much so that we had to wend our way carefully through the beds, but the effort was worth it to see these large numbers of new and better irises at the peak of bloom, and superbly grown. We noted that artistic effect of the background shrub planting, and were intrigued with the collection of plants and trees on the lawn. The whole garden and yard were delightfully done, and one left with a feeling of regret that there was not more time to see and to study.

Before we left, we spent some time going over with Julius Wadekamper his studies on scorch. We can testify from going over the experiments that they are soundly done. Among the tentative conclusions he has reached is that there seems to be no evidence of the disease mechanism on the leaves or in the rhizome, but he found plenty in the roots. Currently he is engaged in running tests to check out bacteria and fungus before he starts on the virus experiments. He is so deeply immersed in the experiment that he is asking for this data: "All your notes and observations on scorch, when it occurred in a given plant (date), the cultivar attacked, if it seems to spread or occurs in one spot only, and any other information about the disease that you observe." His address is found on page 1 of the Bulletin.



Allen Harper, Roberta Torrey, George Torrey, Russell Morgan



Photos by Ira Wood
Alan Johnson (Australia) and John Ohl confer at Wichita

We were the guests of the G. A. Sindts while in the area, and their new home on an acreage in the country is an idyllic spot. The wild areas, the chirping of the birds, the artfully designed little gardens here and there, all gave a feeling of peace and tranquility hard to achieve in this modern age. And the house was masterfully designed to take advantage of all of this.

After a delight dinner at a 3M club with Mr. and Mrs. Sindt and David (what an awesome beard), and seeing the show again the next day (what a chump a day can make a judge look), we set back to Nebraska where ballots and Bulletin waited us. Kay came up the eighth of June, and was pretty well occupied with counting ballots until the fourth of July.

There is nothing so well calculated to leave a feeling of frustrated rage and an all gone feeling in the pit of the stomach as an error in an editor's life. The transposing of pages 27 and 86 in the July Bulletin threw us out of sorts with the whole world. But in justice, one has to remember, even as an editor, that the jigsaw puzzle of page numbering in the printing of many pages at one time, so the sheet can be folded twice and come out with page numbering in proper sequence, is a tricky process and subject to human error. But we still are biting nails.



Atla Brown's SDB garden

Our thanks to Veronica M. Quist for her contribution to the Research fund.

The Twin City Iris Society (Minn.) planted a display bed of iris in the Arboretum on September 18. This move to plant and care for display gardens where the public can see them seems a worthy endeavor, and should enhance the popularity of irises as a garden flower.

As I mull over the iris season now past, with some 5,000 miles of travel to see iris gardens and iris gardeners, certain things stand out in my mind. That superb bloom of LORD BALTIMORE in the Z. G. Benson garden. It was the best that I saw this year, but it was followed closely by ERMINE ROBE, POINT CLEAR, IRISH CHARMER, LITTLE MARK, and CALIENTE. Again, as they grow in our garden, there are few whites that display the appeal that old FLUTED HAVEN and PIETY.

The trek to Louisiana to see the Arny garden was an eye-opener as to the value of the Louisiana irises as garden flowers, and that clump of KATHERINE L. CORNAY was something to see. The gardens of the Les Brooks in Wichita Falls and the Jones in Wichita left uneraseable memories. The show we saw at Oklahoma City, with everything on display from IBs to TBs, and with tables on tables, stays in our memories. The whole panorama of the superb Wichita convention remains etched sharply, with perhaps the sharpest memory pictures being the superb clump of WINTER OLYMPICS in the Woodman garden, the amazing well grown irises in massive quantities in the Hugo Wall garden, the possibilities of Watson Park as a beauty center, the Jones garden and that big clump of NEW MOON in the Stuart garden. A visit to the Minnick garden always is an experience to remember, with hundreds of the best of irises. The Roger



Melba Hamblen
(Photo Van Valkenburgh)



LATIN LOVER
(Photo Foster Allen)



PINK TAFFETA



MARGARITA

IN MEMORIAM

Barbara Kirkland

As we go to press, we learn of the untimely death of Barbara Kirkland. Mrs. Kirkland had that rare creative personality, and she had been deeply involved in hybridizing and in teaching young children about the wonders of irises. She sponsored a class in her garden for school children.

She conducted a Regional Test Garden, and as Robins Chairman of Region V, she had reactivated the program to the point that ten robins were flying at the time of her death.

Young, friendly, vivacious, enthusiastic, creative—Region V and all of AIS will miss her greatly.

ANNOUNCEMENTS

INTRODUCTIONS

Be sure we have your catalog or printed list showing your 1971 introductions. We have acknowledged all that we have received, and will start typing the copy of the 1971 *Registrations and Introductions* on November 1.

Kay N. Negus

27226 Lana Lane

Conroe, Texas 77301



Karl Plomin, garden designer; Paul Breitwieser, coordinator planning and designing; Karl-Heinz Volkland, iris specialist.

1973 HAMBURG

INTERNATIONAL EXHIBIT

American hybridizers who are interested in having their irises appear in the 1973 Hamburg International Exhibit should write:

Sonderdienste IGA 13
Teehaus
In den Groben Wallenlagen
2000 Hamburg 36
West Germany

Attention Mr. D. Behrens

BULLETIN ADVERTISING RATES

COMMERCIAL DIRECTORY (listings in alphabetical order)

Rates per three issues—January, July, October

Single space (one inch—not to exceed six lines)	\$12.50
Double space (not to exceed 12 lines)	\$20.00

JANUARY — JULY — OCTOBER

DISPLAY ADVERTISING

One-inch, single column	\$ 9.00	One-half page	\$32.50
Two-inch	13.00	Two-thirds page	42.50
One-quarter page	18.00	Three-fourths page	47.50
One-third page	24.00	One page	60.00

APRIL

One-inch, single column	\$10.50	One-half page	\$38.00
Two-inch	15.00	Two-third page	50.00
One-quarter page	21.00	Three-fourths page	55.00
One-third page	30.00	Full page	70.00

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Write the editor for cost of ads in color.

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Send advertising copy and checks payable to The American Iris Society to:

J. Arthur Nelson, Editor

3131 North 58th St.

Omaha, Nebr. 68104

GOLDEN ANNIVERSARY BULLETIN

New Members: If you want to read of the fifty year history of the American Iris Society, order this Bulletin. \$2.00.

American Iris Society
2315 Tower Grove Avenue

St. Louis, Mo. 63110

AIS PINS

To be sold for the Scientific Research Fund. Safety-catch \$2.50 each. Order from:

Clifford Benson, Secretary
2315 Tower Grove Avenue

American Iris Society
St. Louis, Mo. 63110

IRIS SLIDES FOR RENTAL

The American Iris Society maintains numbers of excellent sets of iris slides for rental. Each set contains 100 slides, 35mm size. A list of the names of the irises accompanies each set. Ideal for a program for your iris meetings and garden club meetings, these slides are a fine way to study the new irises. Are you considering, or would you like to see, some new irises? What better way than to rent a set of slides and keep informed on the newer varieties.

For that special iris program

—Set of iris slides of the AIS Golden Jubilee Meeting in New York, 1970. See famous gardens . . . renowned iris personalities, and many of the very newest irises on display. Enjoy at your gathering a showing of the most recently written about and commented upon irises. Attend this famous meeting in spirit . . . via this fine collection of slides of convention highlights.

—Set of the newer tall bearded award winning irises. Most recent Award of Merit and Honorable Mention winners as well as Dykes Medalist and contenders—also other top favorites and selected garden scenes.

—Set of the ever popular, less expensive, fine bearded irises that have stood the test of time and grace any garden with their beauty and excellence. Pleasant garden scenes; some interesting iris arrangements.

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Requests for slides should be made well in advance for proper scheduling, preferably 30 days or longer. Include a second date if possible. Give the exact date desired so that slides can be sent insured airmail. They are to be returned in the same manner. The rental fee is \$5.00, payable in advance, for each set of 100 slides. Make checks to the American Iris Society and mail with your requests to:

*Robert Schreiner, Chairman, Slides Committee,
3785 Quinaby Rd., NE (R. 2), Salem, Oregon 97303*

PHOTOSTAT COPIES OF REGISTRATIONS AND BULLETIN ARTICLES

To those who have inquired: We have on file most of the original registration applications since 1960. These often contain more complete information than the necessarily cryptic published registration information. For those seeking to trace and identify irises, we can make copies of the original application for twenty-five cents. Likewise, we can reproduce any *Bulletin* article for twenty-five cents a page. Send money and requests to the Omaha office.

REGISTRATIONS — INTRODUCTIONS

Registrations \$3.00 each

Introductions: Free recording. Be sure that your catalogue or printed list is filed with the registrar and that each present-year introduction is marked plainly. Irises not recorded as introduced are not eligible for awards higher than HC. Irises advertised in the October 1970, and January, April and July Bulletins are automatically recorded as 1971 introductions. Mail to J. Arthur Nelson, 3131 North 58th St., Omaha, Nebr. 68104.

To be sure your registrations appear in the 1972 issue of *Registrations and Introductions for 1971*, they must be processed by October 31, 1971.

IMPORTANT

If you have moved, or plan to change address, or if your *Bulletin* address, including zip code, is wrong, notify

Clifford W. Benson, Secretary
American Iris Society

2315 Tower Grove Ave. St. Louis, Mo. 63110

Also if you are a judge, please note that, so we can prepare the extra address stencil.

AIS MEMBERSHIP RATES

Annual	\$ 7.50	Sustaining	\$ 15.00
Triennial	18.75	Research	37.50
Family	9.00	Life	150.00
Family Triennial	22.50	Family Life	187.50
Youth member, with others of family as members			1.50
Youth member, with no others of family as members			2.50

SECTION DUES

Send dues, making check payable to the American Iris Society, to Clifford W. Benson, Secretary, American Iris Society, 2315 Tower Grove Avenue, St. Louis, Missouri 63110.

	Japanese	Median	Rebloomer	Siberian	Spuria
Single Annual	\$2.00	\$2.00	\$ 3.00	\$1.00	\$2.00
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Annual Supporting	3.00	3.00	5.00	—	3.00

IMPORTANT: Section dues, if paid through AIS, MUST be for the same duration as your AIS dues. AIS FAMILY member desiring SINGLE Section membership, PLEASE indicate which person is applying for Section membership.

Especially for Christmas



No. 132. Bud Vase. 10"

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No. 600. Apothecary. 90 oz. Each \$9.95



No. 14. Beverage Set—5 pc. 90 oz. pitcher and four 12 oz. iced tea glasses. \$14.95

Four extra ice tea glasses. \$ 8.95

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No. 7. Sniffer. 100 oz., iris, \$8.95

No. 7 Sniffer. 100 oz., poinsettia, \$8.95
(Design encircles sniffer.)



No. 5. 9½" Fruit Bowl, Poinsettia . . \$9.95

No. 474. 12½" heavy stem vase, poinsettia \$8.95

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Chapter & affiliated organizations should write for lot prices on cream & sugar and salt & pepper for resale.
(See Jan., April, & July '71 Bulletins for additional items available.)

NOYD'S INTRODUCTIONS FOR 1971

\$25.00 each Net

ADVANCEMENT. Sdlg. N67-83-68A. TB. 35". S. warm white; F. peach-pink; tangerine beard. N63-36-10 (Seventeen x New Arrival) X Java Dove. ML.

LOVERLY. Sdlg. N67-22-25. BB. 23". EM. S. orange-apricot, lacy; F. orange-apricot, lacy, slight rosy amber at haft; deep tangerine beard. N67-22-25((N65-25-10 (Orange Beacon x Chinese Coral) x ?)) X N61-37-62B ((Apricot Dancer x (Golden Flash x Top Flight)).

PINK PLIC. Sdlg. N61-87-62A. TB. 34". M. S. deep pink; F. deep pink, small amount of plicata markings at haft; tangerine beard. N58-47-3 ((Firecracker x Pink Sensation) x (Firecracker x (Pink Cameo x Pink Formal)) X N59-106-12 (sib to Pin Up Girl x New Adventure).

PRIDE OF IRELAND. Sdlg. N61-31-62A. TB. 29". EM. Green self (slightly darker than Fluted Lime); green beard. Charteruse Butterfly X Woodland Sprite.

SANDBERRY. Sdlg. N67-57-16. TB. 30". M. S. sandy buff with rose infusion; F. sandy buff, lighter area below tangerine beard. Debby Rairdon X Kingdom. Very heavy substance.

SOMETHING ELSE. Sdlg. N67-81-1. TB. 35". EM. S. apricot-orange infused pink; F same, lighter area around beard; red beard. Fluted Glory X Kingdom.

GO GO GIRL. Sdlg. N66-41-69A. TB. 36". ML. Medium blue, green on back half way up; S. flatten out making 6 fall petals; tiny white beard not visible. Pacific Panorama X Wenatchee Skies.

HOT LIPS. Sdlg. N64-85-65. TB. 38". ML. S. white; F. White with tiny bit of greenish yellow at haft; very red beard. Ruby Lips X Arctic Fury.

Because of illness we issued no catalog this year

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Wenatchee, Washington 98801

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Commercial Directory

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J. Arthur Nelson
3131 North 58th St.
Omaha, Nebr. 68104

All copy is due by November 15.

Commercial Directory ads will appear in the January, July and October issues of the Bulletin.

A two inch ad for the year is \$20.00 and a one inch ad is \$12.50. Again, make checks payable to the American Iris Society.

BAY VIEW GARDENS

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